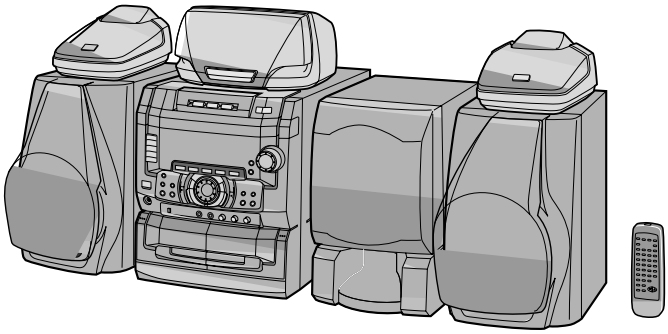
SHARP SERVICE MANUAL

No.S0883CDK491W/



CD-K491W

CD-K491W mini component system consisting of CD-K491W mini component system, CP-K491, CP-SW491, centre (GBOXS0010AWM3) and surround (GBOXS0011AWM3) speaker system.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

COMPACT disc DIGITAL AUDIO

R·D·S EON

DOLBY DIGITAL

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QSOUND

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- QSound is protected under US Patent Nos. 5,105,462 and 5,208,860 and foreign counterparts.

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SHARP CORPORATION

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The contents are subject to change without notice.

SAFETY PRECAUTION FOR SERVICE MANUAL

WARNINGS

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1. THEREFORE IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS ARE OBSERVED DURING SERVICING TO PROTECT YOUR EYES AGAINST EXPOSURE TO THE LASER BEAM.

1-WHEN THE CABINET IS REMOVED, THE POWER IS TURNED ON WITDOUT A COMPACT DISC IN POSITION AND THE PICK-UP IS ON THE OUTER EDGE THE LASER WILL LIGHT FOR SEVERAL SECONDS TO DETECT A DISC. DO NOT LOOK INTO THE PICK-UP LENS.

2-THE LASER POWER OUTPUT OF THE PICK-UP UNIT AND REPLACEMENT SERVICE PARTS ARE ALL FACTORY PRE-SET BEFORE SHIPMENT.
DO NOT ATTEMPT TO RE-ADJUST THE LASER PICK-UP UNIT DURING REPLACEMENT OR SERVICING.

3-UNDER NO CIRCUMSTANCES STARE INTO THE PICK-UP LENS AT ANY TIME.

4-CAUTION-USE OF CONTROLS OR ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

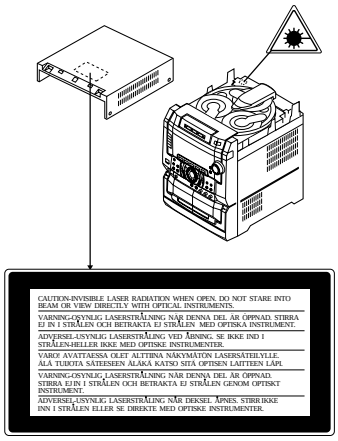
CAUTION

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

- This Mini Component System is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

  As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VAROI AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

VARO !	Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING!	Osynlig laserstralning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VOLTAGE SELECTION

The voltage selector is located on the AC voltage selector box. If adjustment is necessary, use a screwdriver in order to turn the selector in either direction until the correct voltage figure is displayed in the window next to the adjustment screw.

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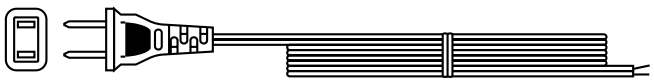

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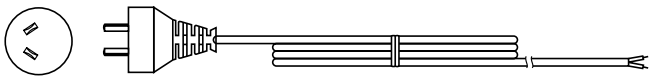

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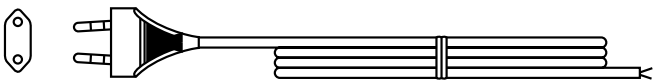

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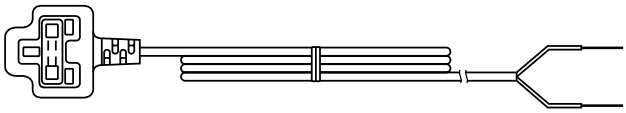

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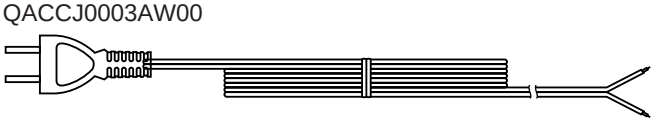
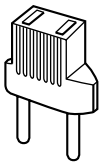


92LPLUG027



92LPLUG155A

Figure 2 AC POWER SUPPLY CORD AND AC PLUG ADAPTOR

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-K491W

● General

Power source: AC 110/127/220/230 - 240 V, 50/60 Hz
Power consumption: 200 W
Dimensions: Width; 270 mm (10-5/8")
Height; 316 mm (12-1/2")
Depth; 343 mm (13-1/2")
Weight: 10.5 kg (23.2 lbs.)

● Amplifier section

Output power: PMPO; 2,000 W (total)
Front speakers;
MPO; 142 W (71 W + 71 W) (10 % T.H.D.)
RMS: 80 W (40 W + 40 W) (10 % T.H.D.)
Centre speaker;
MPO; 71 W (10 % T.H.D.)
RMS: 40 W (10 % T.H.D.)
Surround speakers;
MPO; 142 W (71 W + 71 W) (10 % T.H.D.)
RMS: 80 W (40 W + 40 W) (10 % T.H.D.)
Sub woofer;
MPO; 71 W (10 % T.H.D.)
RMS: 40 W (10 % T.H.D.)

Output terminals: Front speakers; 8 ohms
Centre speaker; 8 ohms
Surround speakers; 8 ohms
Sub woofer; 8 ohms
Monitor; 1 Vp-p/75 ohms
Headphones; 16 - 50 ohms (recommended; 32 ohms)

Input terminals: DVD 1 (Digital); Optical
DVD 2 (Digital); Coaxial
VCR 1/AUX 1; 500 mV/47 kohms
VCR 2/AUX 2; 500 mV/47 kohms
DVD 1/VCR 1; 1 Vp-p/75 ohms
DVD 2/VCR 2; 1 Vp-p/75 ohms
Microphone 1/2; 1 mV/4.7 kohms

● Tuner section

Frequency range: FM; 88 - 108 MHz
SW2; 9.5 - 21.85 MHz
SW1; 3.2 - 7.3 MHz
MW; 531 - 1,602 kHz

● Cassette deck section

Frequency response: 50 - 14,000 Hz (Normal tape)
Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/playback)
Wow and flutter: 0.15 % (WRMS)

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semi-conductor laser pickup
D/A converter: 1-bit D/A converter
Frequency response: 20 - 20,000 Hz
Dynamic range: 100 dB (1 kHz)

CP-K491

● Front speaker section

Type: 3-way, 130 mm (5-1/8") woofer, 50 mm (2") tweeter and super tweeter
Maximum input power: 80 W
Rated input power: 40 W
Impedance: 8 ohms
Dimensions: Width; 220 mm (8-11/16")
Height; 316 mm (12-1/2")
Depth; 284 mm (11-3/16")
Weight: 3.4 kg (7.5 lbs.)/each

GBOXS0010AWM3

● Centre speaker section

Type: 2-way, 120 mm (4-3/4") woofer and 50 mm (2") tweeter
Maximum input power: 80 W
Rated input power: 40 W
Impedance: 8 ohms
Dimensions: Width; 270 mm (10-5/8")
Height; 142 mm (5-5/8")
Depth; 220 mm (8-11/16")
Weight: 1.8 kg (4.0 lbs.)

GBOXS0011AWM3

● Surround speaker section

Type: 2-way, 100 mm (4") woofer and 50 mm (2") tweeter
Maximum input power: 80 W
Rated input power: 40 W
Impedance: 8 ohms
Dimensions: Width; 200 mm (7-7/8")
Height; 134 mm (5-5/16")
Depth; 240 mm (9-1/2")
Weight: 1.4 kg (3.1 lbs.)/each

CP-SW491

● Sub woofer section

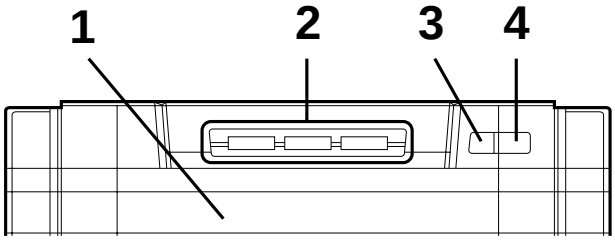
Type: 160 mm (6-1/2") woofer
Maximum input power: 80 W
Rated input power: 40 W
Impedance: 8 ohms
Dimensions: Width; 220 mm (8-11/16")
Height; 316 mm (12-1/2")
Depth; 294 mm (11-5/8")
Weight: 3.8 kg (8.4 lbs.)

Specifications for this model are subject to change without prior notice.

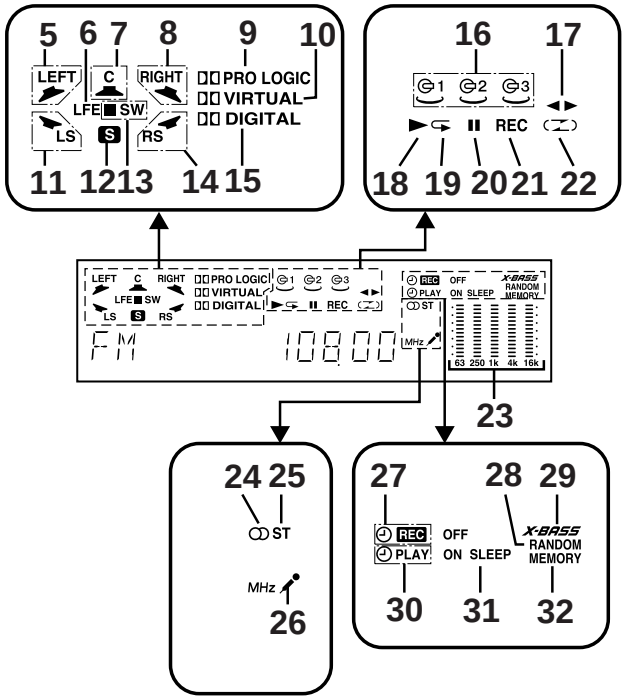
NAMES OF PARTS

CD-K491W

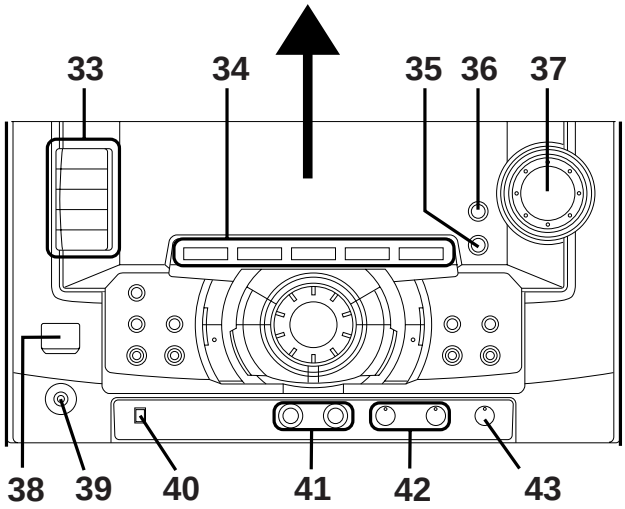
■ Front panel



1. Disc Tray
2. Disc Number Selector Buttons
3. Disc Skip Button
4. Open/Close Button

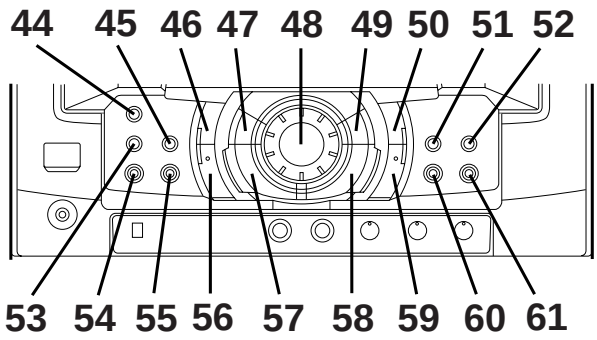


5. Left Front Speaker Indicator
6. LFE Indicator
7. Centre Speaker Indicator
8. Right Front Speaker Indicator
9. Dolby Pro Logic Indicator
10. Dolby Virtual Indicator
11. Left Surround Speaker Indicator
12. Surround Signal Indicator
13. Sub Woofer Indicator
14. Right Surround Speaker Indicator
15. Dolby Digital Indicator
16. (CD) Disc Number Indicator
17. (TAPE) Direction Indicator
18. (CD) Play Indicator
19. (CD) Repeat Play Indicator
20. (CD) Pause Indicator
21. (TAPE) Record Indicator
22. (TAPE) Reverse Mode Indicator
23. Spectrum Analyzer Indicator
24. (TUNER) FM Stereo Indicator
25. (TUNER) FM Stereo Mode Indicator
26. Karaoke Maker Indicator
27. Timer Record Indicator
28. (CD) Random Play Indicator
29. Extra Bass Indicator
30. Timer Play Indicator
31. Sleep Indicator
32. (CD/TUNER) Memory Indicator

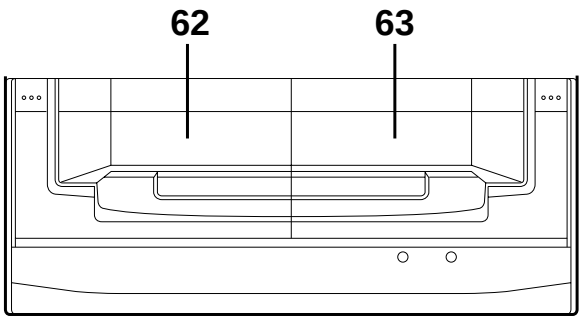


33. Function Selector Buttons
34. Surround Mode Selector Buttons
35. Equalizer Selector/Demo Mode Button
36. Extra Bass Button
37. Volume Control
38. On/Stand-by Button
39. Headphone Socket
40. Karaoke Maker Switch
41. Microphone Sockets
42. Microphone Level Controls
43. Digital Echo Control

44. Clock Button
45. Sleep Button
46. Reverse Mode Button
47. CD Pause Button
48. Jog Dial
49. (CD/TAPE) Stop Button
50. Record Pause Button
51. Menu Button
52. Item Button
53. Timer Button
54. Memory Button
55. Clear Button
56. (CD) Track Down/Review Button
    (TAPE 2) Fast Wind Button
    (TUNER) Tuning Down Button
57. (TAPE 2) Reverse Play Button
58. (CD) Play/Repeat Button
    (TAPE 1) Play Button
    (TAPE 2) Forward Play Button
59. (CD) Track Up/Cue Button
    (TAPE) Fast Wind Button
    (TUNER) Tuning Up Button
60. (TAPE) Normal Edit Button
61. (TAPE) High Edit/Beat Cancel Button

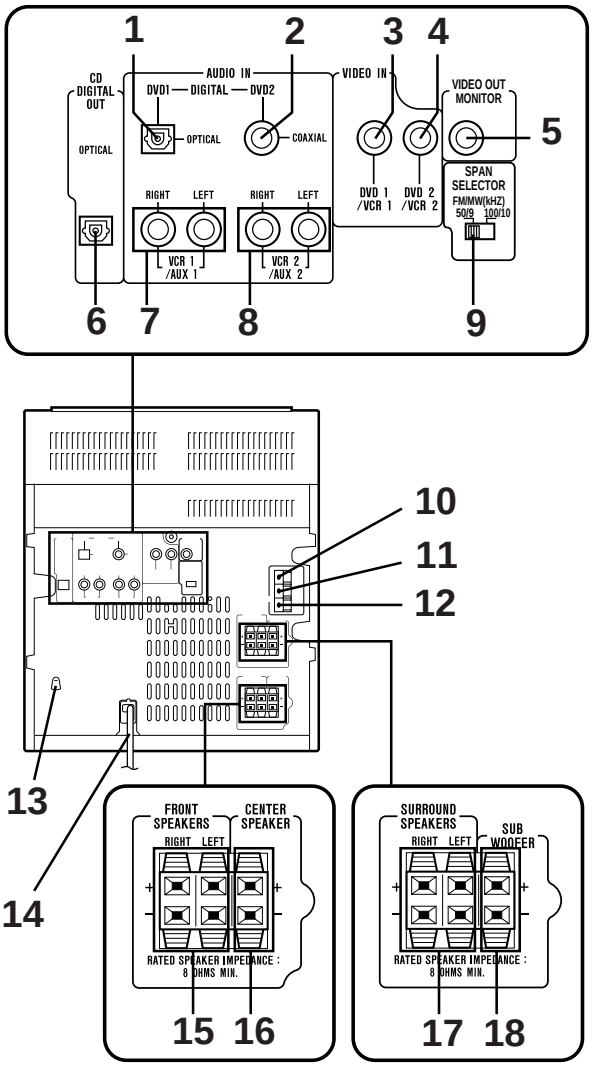


62. (TAPE 1) Cassette Compartment
63. (TAPE 2) Cassette Compartment



■ Rear panel

1. DVD 1 Digital Input Socket (Optical)
2. DVD 2 Digital Input Socket (Coaxial)
3. DVD 1/VCR 1 Video Input Socket
4. DVD 2/VCR 2 Video Input Socket
5. Video Output Socket
6. CD Digital Output Socket (Optical)
7. VCR 1/AUX 1 Input Socket
8. VCR 2/AUX 2 Input Socket
9. Span Selector Switch



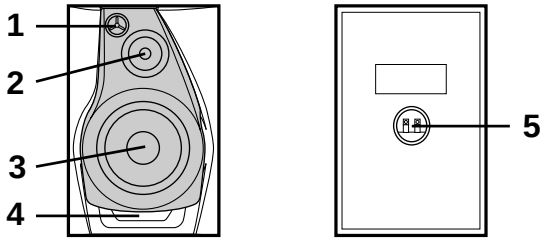
10. 75 Ohm FM Aerial Socket
11. Aerial Earth Terminal
12. SW1/SW2/MW Aerial Terminal
13. AC Voltage Selector
14. AC Power Lead
15. Front Speaker Terminals
16. Centre Speaker Terminals
17. Surround Speaker Terminals
18. Sub Woofer Terminals

CD-K491W

CP-K491

■ **Front speakers**

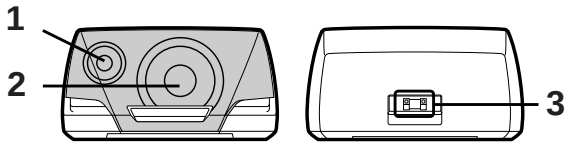
1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflex Duct
5. Speaker Terminals



GBOXS0010AWM3

■ **Centre speaker**

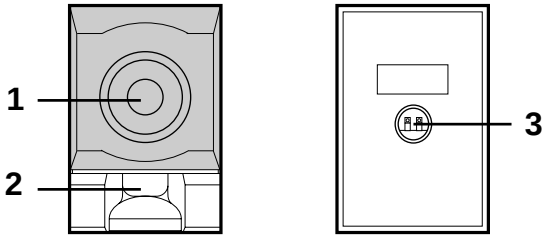
1. Tweeter
2. Woofer
3. Speaker Terminals



CP-SW491

■ **Sub Woofer**

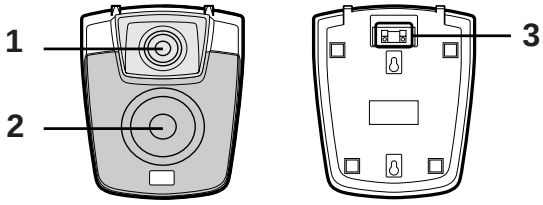
1. Woofer
2. Bass Reflex Duct
3. Speaker Terminals



GBOXS0011AWM3

■ **Surround speakers**

1. Tweeter
2. Woofer
3. Speaker Terminals



■ Remote control

1. Remote Control Transmiter LED
2. Surround Mode Selector Buttons
3. Sub Woofer Level Control Buttons
4. Setup Up/Down Buttons
5. Menu Button
6. Item Button

● Tuner control section

7. Preset Up/Down Buttons

● CD control section

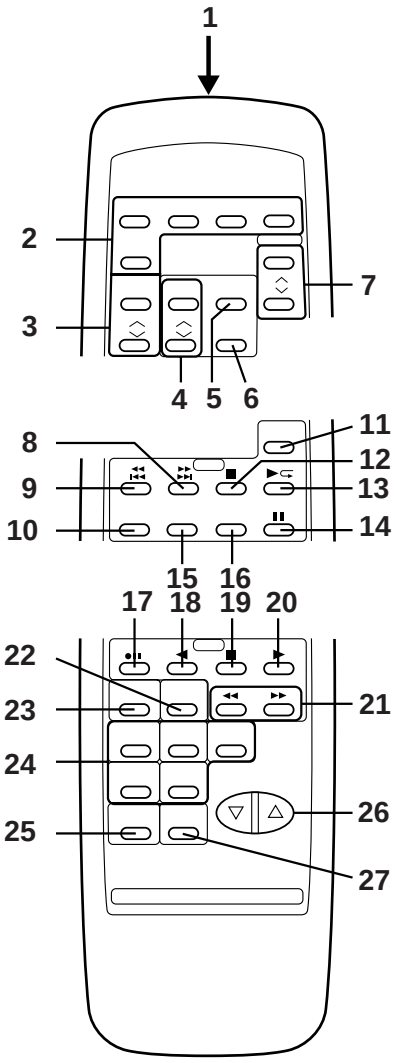
8. Track Up/Cue Button
9. Track Down/Review Button
10. Memory Button
11. Disc Skip Button
12. Stop Button
13. Play/Repeat Button
14. Pause Button
15. Clear Button
16. Random Button

● Tape control section

17. (TAPE 2) Record Pause Button
18. (TAPE 2) Reverse Play Button
19. Stop Button
20. (TAPE 1) Play Button
    (TAPE 2) Forward Play Button
21. (TAPE 2) Fast Wind Buttons

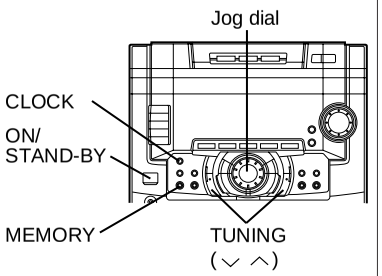
● Common section

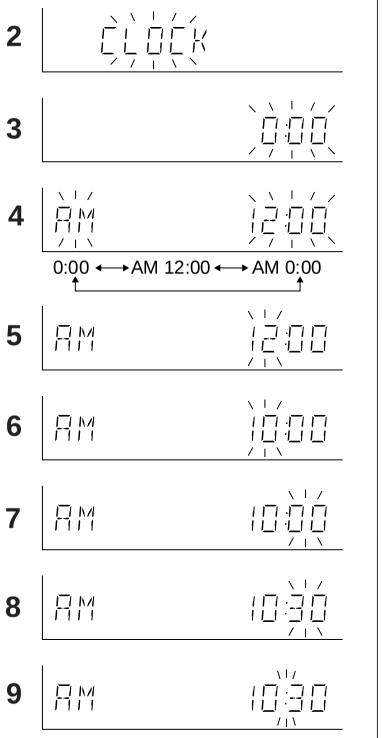
22. Extra Bass Button
23. Equalizer Mode Button
24. Function Selector Buttons
25. On/Stand-by Button
26. Volume Control Buttons
27. Dimmer Button



SETTING THE CLOCK

In this example, the clock is set for the 12-hour (AM 12:00) system.





1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY button.

4 Turn the jog dial to select the time display mode.

"0:00" → The 24-hour display will appear. (0:00 - 23:59)
"AM 12:00" → The 12-hour display will appear. (AM or PM 12:00 - 11:59)
"AM 0:00" → The 12-hour display will appear. (AM or PM 0:00 - 11:59)

- Note that this can only be set when the unit is first installed or it has been reset (see page 42).

5 Press the MEMORY button.

6 Adjust the hour by turning the jog dial.

- When the jog dial is turned one click clockwise, the time will increase by 1 hour. When it is turned one click anticlockwise, the time will decrease by 1 hour. Keep turning the jog dial to change the time continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY button.

8 Adjust the minutes by turning the jog dial.

- When the jog dial is turned one click clockwise, the time will increase by 1 minute. When it is turned one click anticlockwise, the time will decrease by 1 minute. Keep turning the jog dial to change the time continuously.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY button.

- The clock starts operating from "0" seconds. (Seconds are not displayed.)

Note:

- In the event of a power failure or when the AC power lead is disconnected, the clock display will go out. When the AC power supply is restored, the clock display will flash on and off to indicate the time when the power failure occurred or when the AC power lead was disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:

When the unit is in the stand-by mode:

① Press the MEMORY button.
② Perform steps 6 - 9 above.

When the unit is on:

① Press the CLOCK button.
② Within 5 seconds, press the MEMORY button.
③ Perform steps 6 - 9 above.

To see the time display:

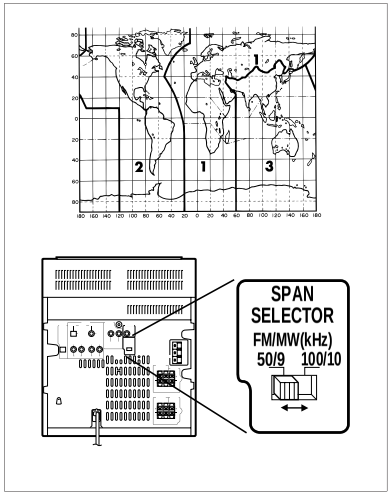
Press the CLOCK button.

- The time display will appear for about 5 seconds.

To change the time display mode:

① Perform steps 1 and 2 in the section "RESETTING THE MICROCOMPUTER", on page 42.
② Perform steps 1 - 9 above.

(Continued)



■ FM/MW interval (span)

The International Telecommunication Union (ITU) has established that member countries should maintain either a 10 kHz or a 9 kHz interval between broadcasting frequencies of any MW station. The illustration shows the 9 kHz interval zones (regions 1 and 3), and the 10 kHz interval zone (region 2).

Before using the unit, set the SPAN SELECTOR switch (on the rear panel) to MW tuning interval (span) of your area.

To change the tuning zone:

1 Press the ON/STAND-BY button to enter the stand-by mode.

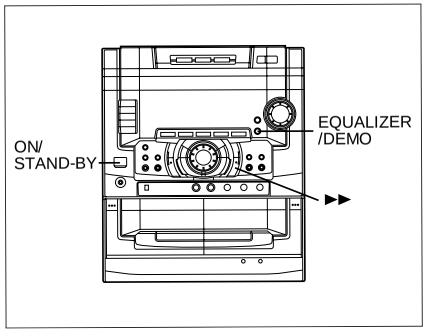
2 Set the SPAN SELECTOR switch to "50/9" for 9 kHz MW interval (50 kHz FM interval), and "100/10" for 10 kHz MW interval (100 kHz FM interval).

3 Press the ON/STAND-BY button whilst holding down the button and the EQUALIZER/DEMO button.

Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

RESETTING THE MICROCOMPUTER



Reset the microcomputer by performing the following procedure for the cases shown below:

- To erase all of the stored memory contents, or
- If the display does not function properly, or
- The unit does not operate properly.

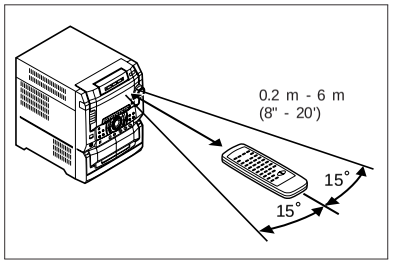
1 Press the ON/STAND-BY button to enter the stand-by mode.

2 Press the ON/STAND-BY button whilst holding down the button and the EQUALIZER/DEMO button.

Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

(Continued)



■ Remote control

- When inserting or removing the batteries, push them towards the battery terminal.
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes concerning use:

- Replace the batteries if control distance decreases or operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take suffcient care on static electricity of integrated circuits and other circuits when servicing.

CD-K491W

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	8-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x8	8-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Hook ..... (C1) x3 3. Hook ..... (C2) x2 4. Screw ..... (C3) x1 5. Socket ..... (C4) x3	8-2 8-2,9-1
4	Dolby PWB	1. Flat cable ..... (D1) x2 2. Socket ..... (D2) x1 3. Screw ..... (D3) x12	9-1
5	Tuner PWB	1. Socket ..... (E1) x1 2. Screw ..... (E2) x5	9-1
6	Rear Panel	1. Screw ..... (F1) x11	8-2 9-1
7	Main PWB	1. Flat cable ..... (G1) x2 2. Flat wire ..... (G2) x3 3. Socket ..... (G3) x5 4. Screw ..... (G4) x3	9-1
8	Karaoke PWB	1.Screw ..... (H1) x3	9-2
9	Front Panel	1. Flat wire ..... (J1) x1 2. Screw..... (J2) x2	9-2
10	Power Amp. PWB with Heat Sink	1. Socket ..... (K1) x3 2. Screw ..... (K2) x6	9-2
11	Power Supply PWB	1. Screw ..... (L1) x6	9-3
12	Display PWB	1. Knob ..... (M1) x2 2. Nut ..... (M2) x1 3. Screw ..... (M3) x12	9-4
13	CD Switch PWB	1. Screw ..... (N1) x3	9-4
14	Headphones	1. Screw ..... (P1) x1	9-4
15	Tape Mechanism	1. Open the cassette Lid. 2. Screw ..... (Q1) x6	9-4
16	Turntable	1. Screw ..... (R1) x1 2. Cover ..... (R2) x1	9-5
17	Disc Tlay	1. Screw ..... (S1) x2 2. Guide ..... (S2) x2	9-5
18	CD Servo PWB	1. Screw ..... (T1) x1 2. Socket ..... (T2) x4	9-6
19	CD Changer Mechanism	1. Screw ..... (U1) x4	10-1
20	CD Mechanism	1. Screw ..... (V1) x1	10-1

Note 1:

How to open the changer manually. (Fig. 8-3)

1. Then, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom in this state. After that, push forward the CD player base.

CD-K491W

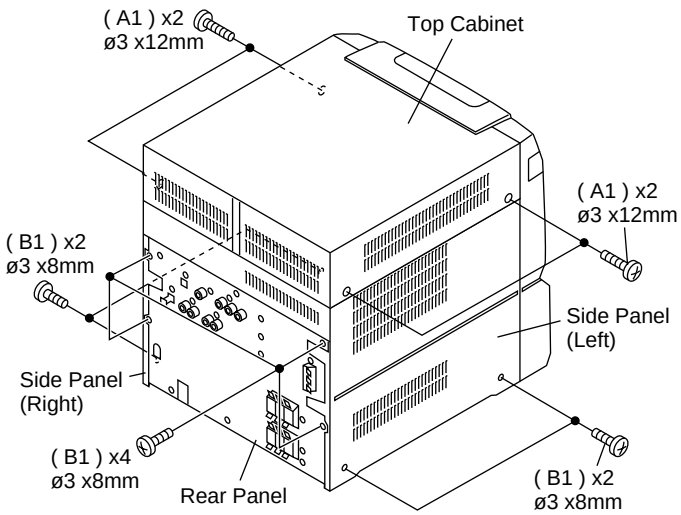


Figure 8-1

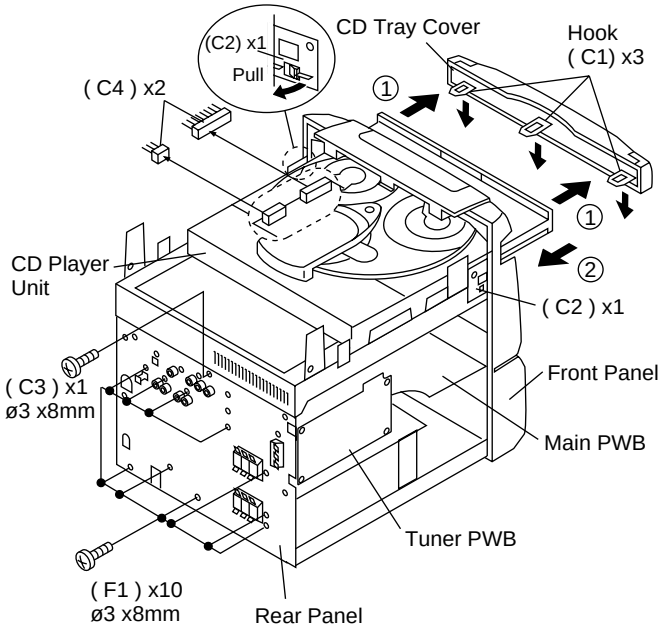


Figure 8-2

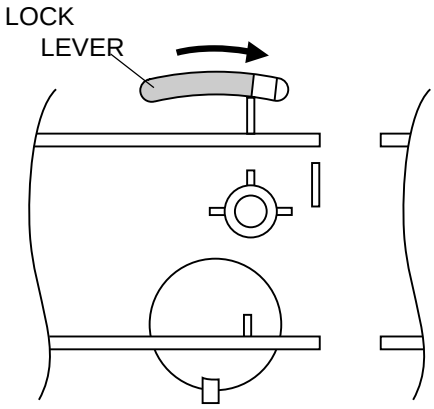


Figure 8-3

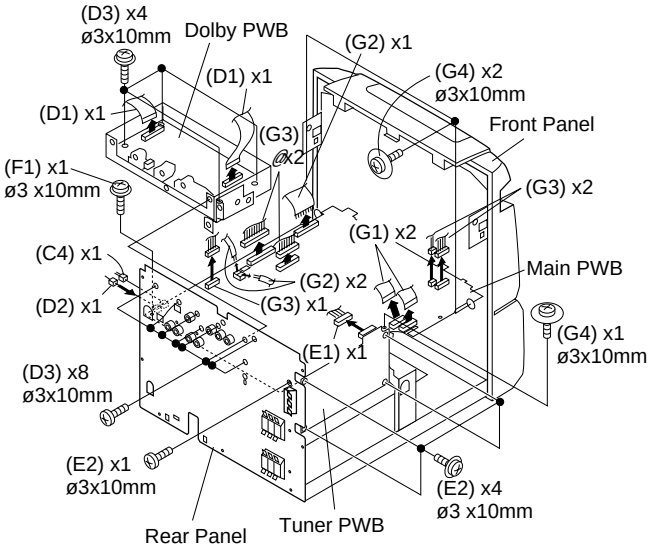


Figure 9-1

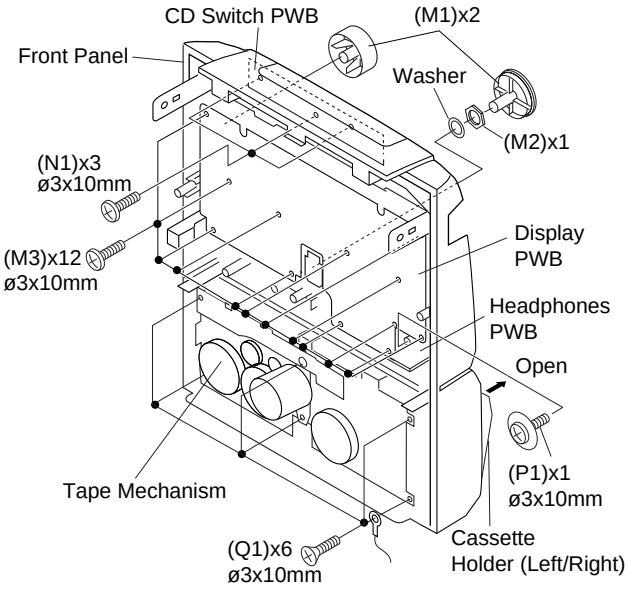


Figure 9-4

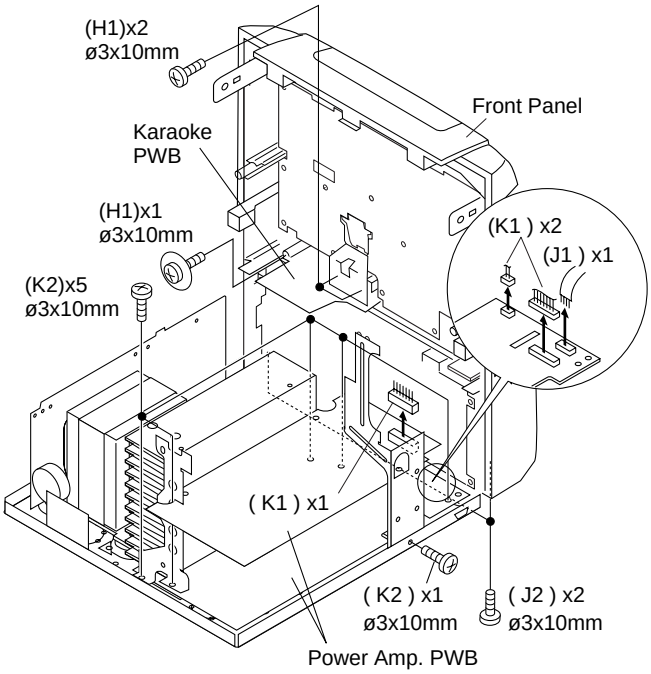


Figure 9-2

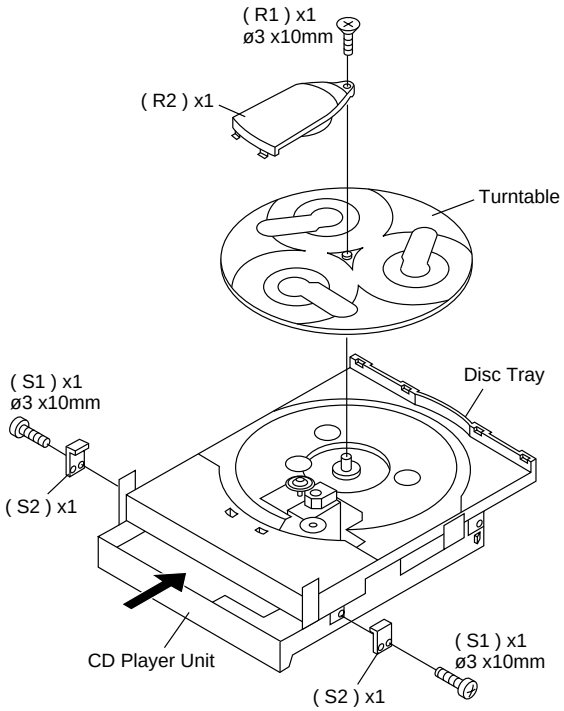


Figure 9-5

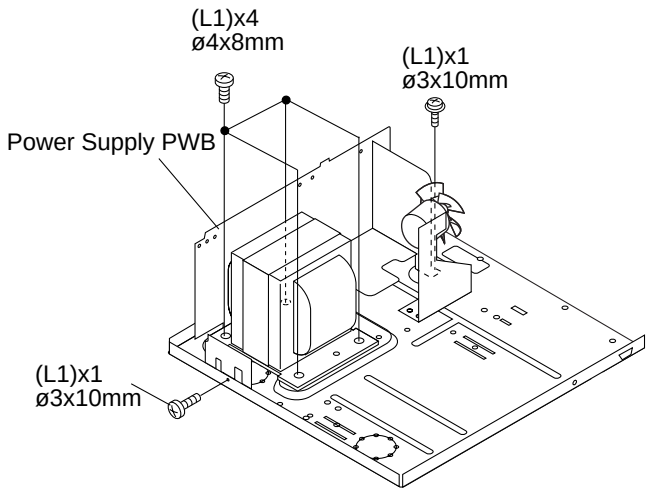


Figure 9-3

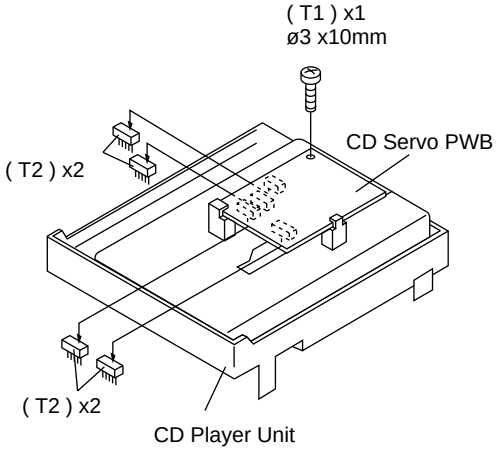
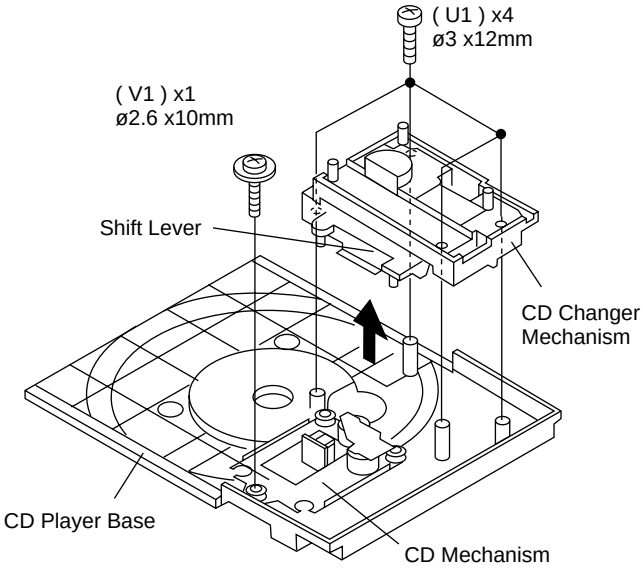


Figure 9-6

CD-K491W



Be careful when installing the CD changer mechanism. Install the CD changer mechanism on the CD player base after the shift lever has been set in the highest position.

Figure 10-1

CP-K491

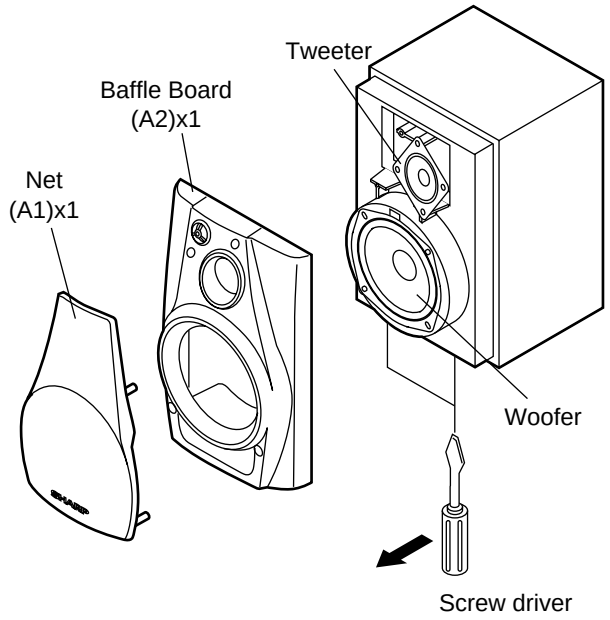
STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Speaker	1. Net ..... (A1) x1 2. Baffle Board ..... (A2) x1 3. Screw ..... (A3) x2 4. Screw ..... (A4) x4 5. Screw ..... (A5) x2	10-2

CP-SW491

STEP	REMOVAL	PROCEDURE	FIGURE
1	Sub woofer	1. Net ..... (A1) x1 2. Duct Panel ..... (A2) x1 3. Screw ..... (A3) x4	10-3

Note:
The center and rear speakers can be easily disassembled. Therefore the disassembling method is not discribed.
For details refer to the disassembling drawing in the Parts Guide.

CP-K491



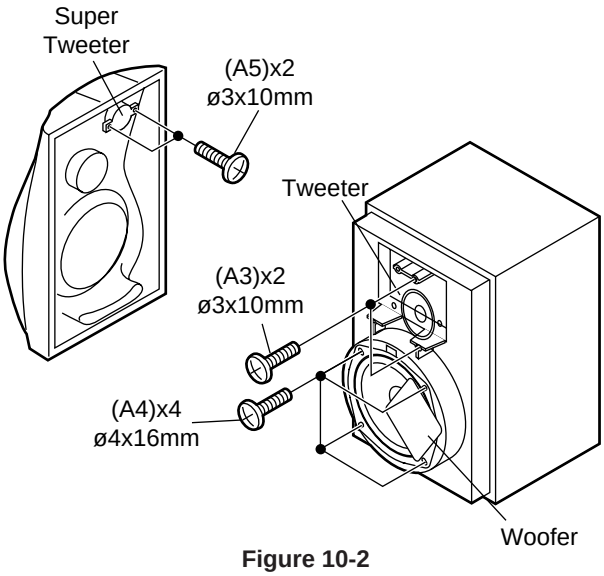


Figure 10-2

CP-SW491

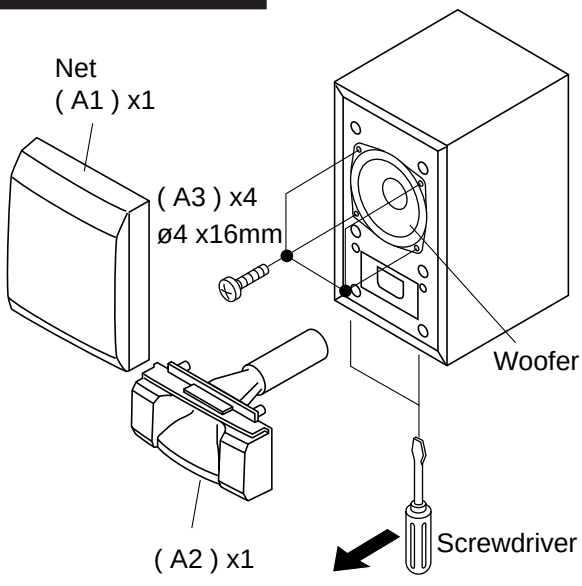


Figure 10-3

REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

Perform steps 1, 2, 3,16, 17, 18, 19 and 20 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 11-1)

1. Remove the screws (A1) x 2 pcs., to remove the loading motor.

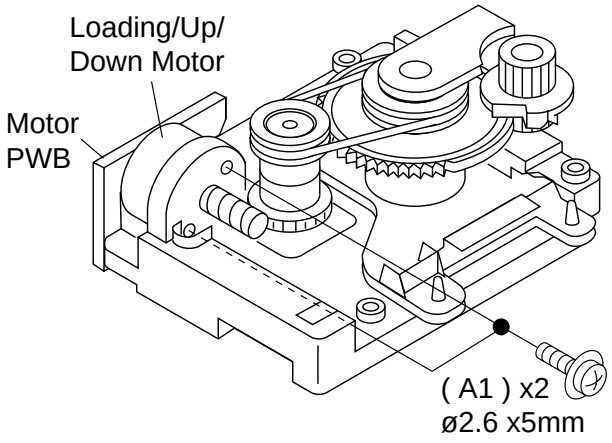


Figure 11-1

How to remove the pickup (See Fig. 11-2)

1. Remove the screws (B1) x 2 pcs., to remove the shaft (B2).
2. Remove the stop washer (B3) x 1 pc., to remove the gear (B4).
3. Remove the pickup.

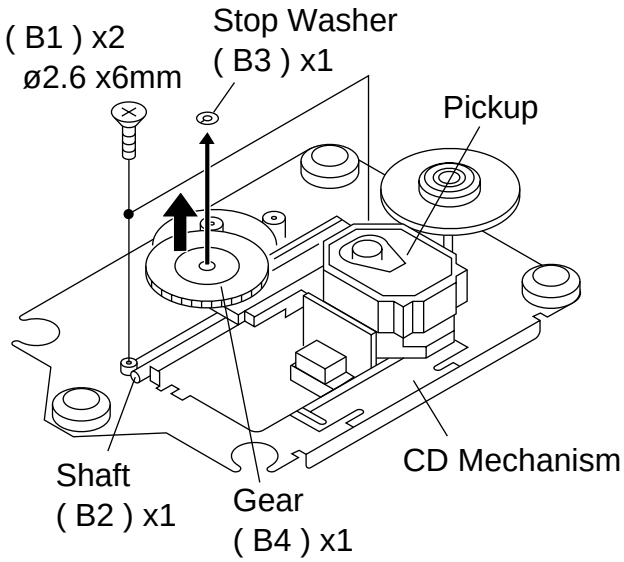


Figure 11-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g. cm	30 to 100 g.cm
Fast forward: TW-2231	—	50 to 100 g.cm
Rewind: TW-2231	—	50 to 100 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	VRM01	3,000 ± 30 Hz	Speaker terminal (Load resistance: 8 ohms)

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,602 kHz	T351	*1
MW Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
SW1 Band Coverage	—	3.2 MHz	(fL): T307 2.0 ± 0.1V	*2
SW1 Band Coverage	—	7.3 MHz	(fH): TC305 7.7 ± 0.2 V	*2
SW2 Band Coverage	—	9.5 MHz	(fL): T308 2.1 ± 0.1V	*2
SW2 Band Coverage	—	21.85 MHz	(fH): TC304 7.7 ± 0.2V	*2
MW Tracking	990 kHz	990 kHz	T302	*1
SW1 Tracking	3.9 MHz	3.9 MHz	(fL): T303	*1
SW1 Tracking	7.1 MHz	7.1 MHz	(fH): TC303	*1
SW2 Tracking	11.65 MHz	11.65 MHz	(fL): T304	*1
SW2 Tracking	21.45 MHz	21.45 MHz	(fH): TC302	*1

*1. Input: Antenna, Output: TP302
*2. Input: Anetnna, Output: TP301

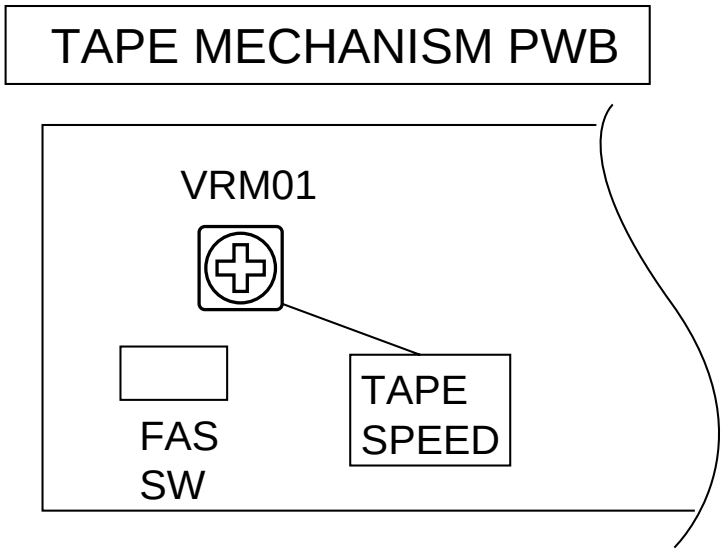


Figure 12

• FM RF

Signal generator: 1 kHz, 40 kHz dev, FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
Band Coverage	—	87.5 kHz	(fL): LT02 3.7 ± 0.1 V	*1
RF	98 MHz 10 - 30 dB	98 MHz	LT01	*2

*1. Input: Antenna, Output: TP301
*2. Input: Anetnna, Output: Speaker Terminal

• Setting the Test Mode

Keeping the PAUSE button and TUNER button pressed, turn on POWER. Then, the frequency is initially set in the memory as shown in Table. Call it with the PRESET button to use it for adjustment and check of tuner circuit.

Preset No.	FM	Preset No.	MW	Preset No.	SW1	Preset No.	SW2
1	87.50 MHz	6	531 kHz	11	3.2 MHz	16	9.5 MHz
2	108.00 MHz	7	1,602 kHz	12	7.3 MHz	17	21.85MHz
3	90.00 MHz	8	603 kHz	13	3.9 MHz	18	11.65 MHz
4	106.00 MHz	9	1,404 kHz	14	7.1 MHz	19	21.45 MHz
5	98.00 MHz	10	990 kHz	15	5.06 MHz	20	15.1 MHz
21 ~ 40	————						

• FM Detection

Signal generator: 10.7 MHz, FM sweep

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	10.7 MHz	98 MHz	TT01 (Turn the core of transformer TT01 fully counter-clock wise)	*1

*1. Input: Antenna, Output: TP301
*2. Input: Anetnna, Output: Speaker Terminal

• FM Mute Level

Signal generator: 1kHz, 40 kHz dev., FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.00 MHz (25 dBµV)	98.00 MHz	VR351 *1	Input: Antenna Output: Speaker Terminal

*1. Adjust so that an output signal appears.

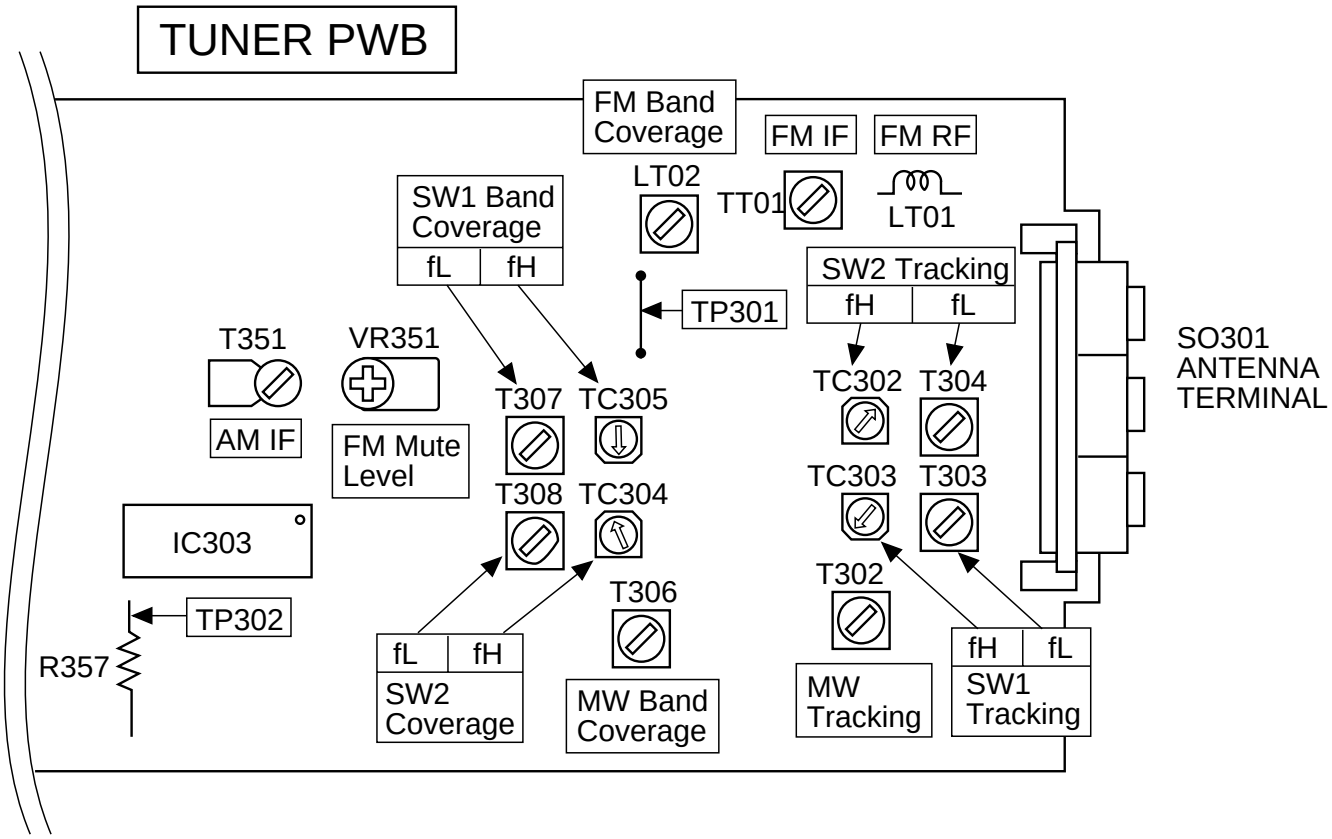


Figure 13 ADJUSTMENT POINTS

CD-K491W

TEST MODE

• Setting the test mode

Any one of test mode can be set by pressing several keys as follows.

<CD> + <EQ> + <POWER> TEST: CD operation test

• TEST mode

Function — CD test mode

Setting of TEST mode

Indication of CD TST mode (Fig. 14-1)

OPEN/CLOSE operation is manual operation.

The pickup can be moved by using the (▶▶) or (◀◀) key.

IL is not performed.

<MEMORY> LASER ON — <MEMORY> Tracking on the spot. SERVO OFF PLAY — <MEMORY> Tracking on the spot. SERVO ON PLAY — <STOP> STOP

<PLAY> key input — TOC. IL is performed, and the ordinary PLAY is performed. If the following key is pressed during PLAY, it is possible to specify directly any Track No.
<Disc Number 1> key: Track 4
<Disc Number 2> key: Track 9
<Disc Number 3> key: Track 15
— Press <STOP> key. — Stop

Note:

Only in STOP state it is possible to slide the pickup with the (▶▶) or (◀◀) key.

VOL. --- Last memory
BAL. --- CENTER
R.GEQ. --- FLAT
X-BAS --- OFF

Canceling method - POWER OFF

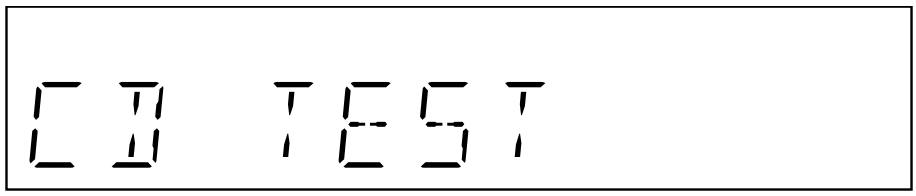


Figure 14-1

CD SECTION

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.
Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

• Automatic adjustment item

1. Focus offset (Fig. 14-2)
2. Tracking offset (Fig. 14-3)
3. E/F balance (tracking error balance) (Fig. 14-4)
4. RF level AGC function (HF level: constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings.

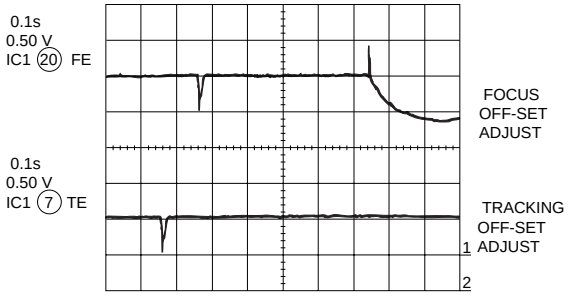


Figure 14-2

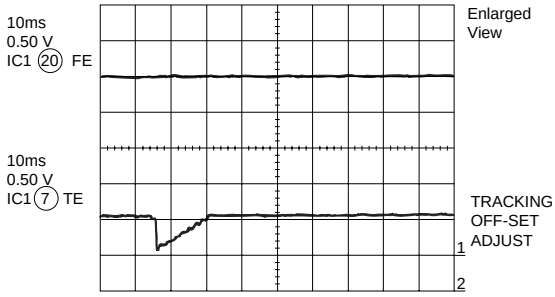


Figure 14-3

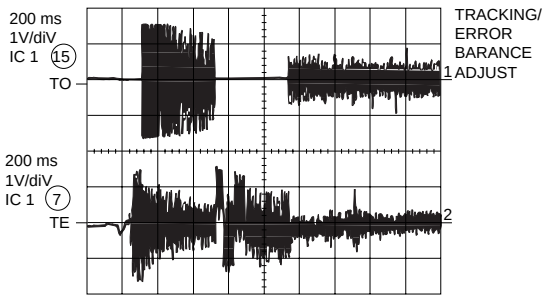
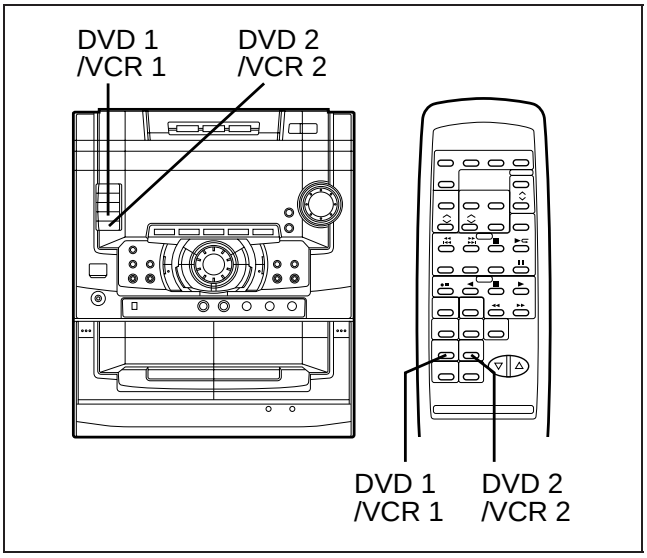


Figure 14-4

DOLBY DIGITAL



When you connect this unit to a DVD player which is playing a disc with the DOLBY DIGITAL trademark, you can enjoy realistic, powerful sound by playing back the recorded signal through 6 speakers with the sound coming from the front left, front right, centre, surround left, surround right and sub woofer speakers.

To listen to a disc using the Dolby Digital mode:

1 Connect a DVD player. (See page 39.)

2 Press the DVD 1/VCR 1 or DVD 2/VCR 2 button to select "DVD 1" or "DVD 2".

3 Start the DVD player.

Note:

- When the Dolby Digital surround mode is being used, the equalizer will be set to FLAT.

Type of Dolby digital signal

There are different types of Dolby digital signals. The type of Dolby digital signal being input into this unit can be checked in the display.

Display	Channels available	Display	Channels available
DVD 1 PCM	Normal PCM playback	DVD 1 2/2	Front (L, R) + surround (L, R)
DVD 1 1/0	Centre only (monaural)	DVD 1 3/0	Front (L, R) + centre
DVD 1 2/0	Front (L, R) (When the surround mode is set to Normal or Phantom, sound will also be heard from the surround speakers.)	DVD 1 3/1	Front (L, R) + centre + surround (monaural)
DVD 1 2/1	Front (L, R) + surround (monaural)	DVD 1 3/2	Front (L, R) + centre + surround (L, R)

- If a low frequency sound effect (Low Frequency Effect) contains a Dolby digital signal, "LFE" will light in the display. When this "LFE" is lit, low frequency signals will be output from the sub woofer.

SURROUND EFFECT CONTROL

This product allows you to enjoy 4 surround modes.

Normal mode:
When you play a sound source that has the DOLBY DIGITAL (5.1 channels) or DOLBY SURROUND trademarks, you can enjoy surround sound using all 6 speakers.

Phantom mode:
When you play a sound source that has the DOLBY DIGITAL or DOLBY SURROUND trademarks, you can enjoy surround sound using 5 speakers, but not the centre speaker.

Virtual Dolby Surround:
You can enjoy a three-dimensional surround stereo image using just the 2 front speakers.

Enhanced Virtual Surround:
You can enjoy surround sound, using only the 2 front speakers, but this mode increases the three-dimensional stereo image effect even more.

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ニ ニ ニ コ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	MECHA UP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW991	VOLTAGE SELECTOR	230-240V
SWD01	VOLUME JOG	ON—OFF
SWD02	JOG	ON—OFF
SWD03	X-BASS	ON—OFF
SWD04	PRE EQ.	ON—OFF
SWD05	MENU	ON—OFF
SWD06	ITEM	ON—OFF
SWD12	TUNING UP/CUE	ON—OFF
SWD13	STOP	ON—OFF
SWD14	NORMAL EDIT	ON—OFF
SWD15	HIGH EDIT	ON—OFF
SWD16	REC/PAUSE	ON—OFF
SWD17	F-PLAY	ON—OFF
SWD23	QSOUND	ON—OFF
SWD26	VIRTUAL	ON—OFF
SWD27	PHANTOM	ON—OFF
SWD28	NORMAL	ON—OFF
SWD29	BYPASS	ON—OFF
SWD30	TUNING DOWN/REWIND	ON—OFF
SWD31	CD PAUSE	ON—OFF

REF. NO	DESCRIPTION	POSITION
SWD32	REVERSE MODE	ON—OFF
SWD33	R-PLAY	ON—OFF
SWD34	CLOCK	ON—OFF
SWD35	MEMORY	ON—OFF
SWD36	TIMER	ON—OFF
SWD37	SLEEP	ON—OFF
SWD38	CLEAR	ON—OFF
SWD39	DVD/VIDEO 1	ON—OFF
SWD40	DVD/VIDEO 2	ON—OFF
SWD41	TAPE 1/2	ON—OFF
SWD42	TUNER/BAND	ON—OFF
SWD43	CD	ON—OFF
SWD48	POWER/STAND-BY	ON—OFF
SWD49	KARAOKE	ON—OFF
SWD50	DISC 1	ON—OFF
SWD51	DISC 2	ON—OFF
SWD52	DISC 3	ON—OFF
SWD53	DISC SKIP	ON—OFF
SWD54	OPEN/CLOSE	ON—OFF
SWF02	SPAN SELECTOR	50/9
SWM3	REC FWD	ON—OFF
SWM4	REC RVS	ON—OFF
SWM5	F.A.S	ON—OFF
SWM6	CAM	ON—OFF

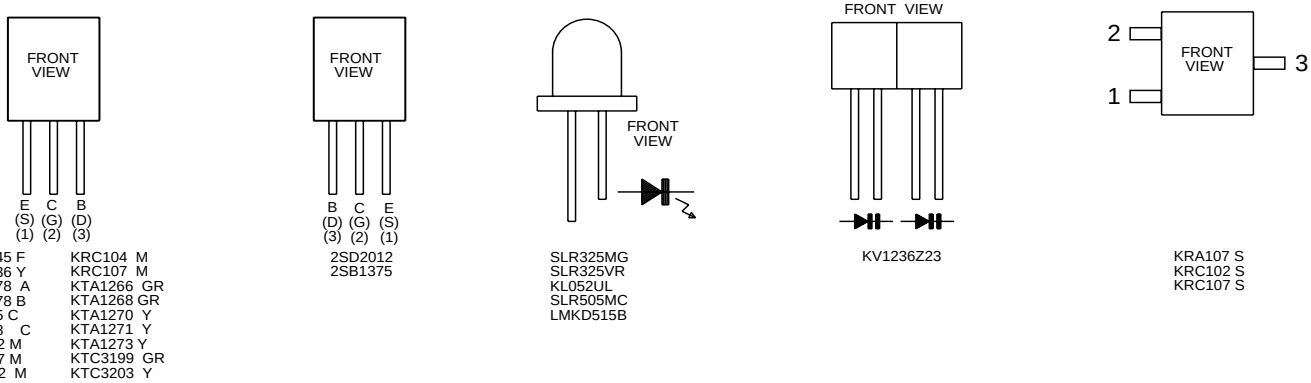


Figure 16 TYPES OF TRANSISTOR AND LED

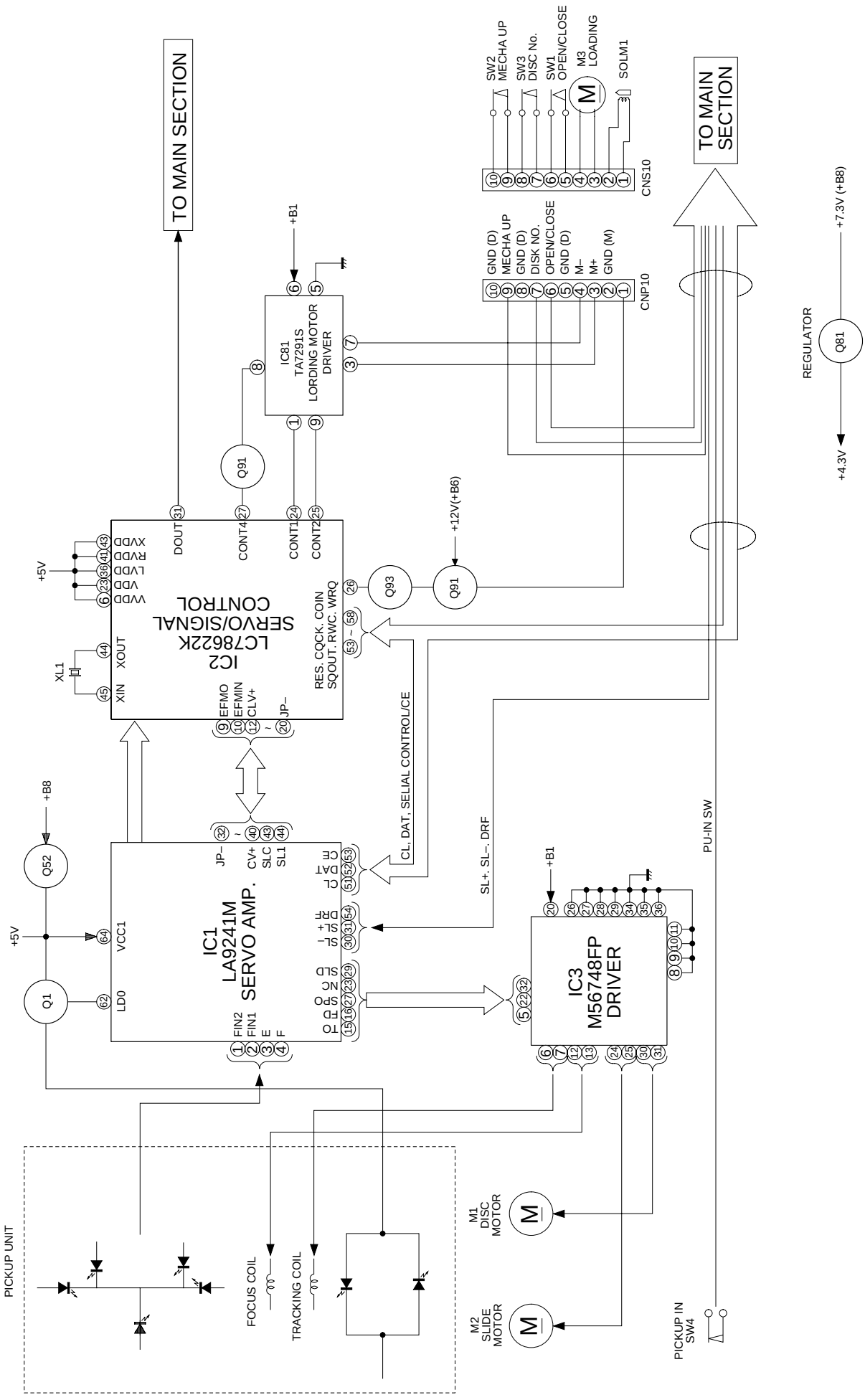


Figure 17 BLOCK DIAGRAM (1/5)

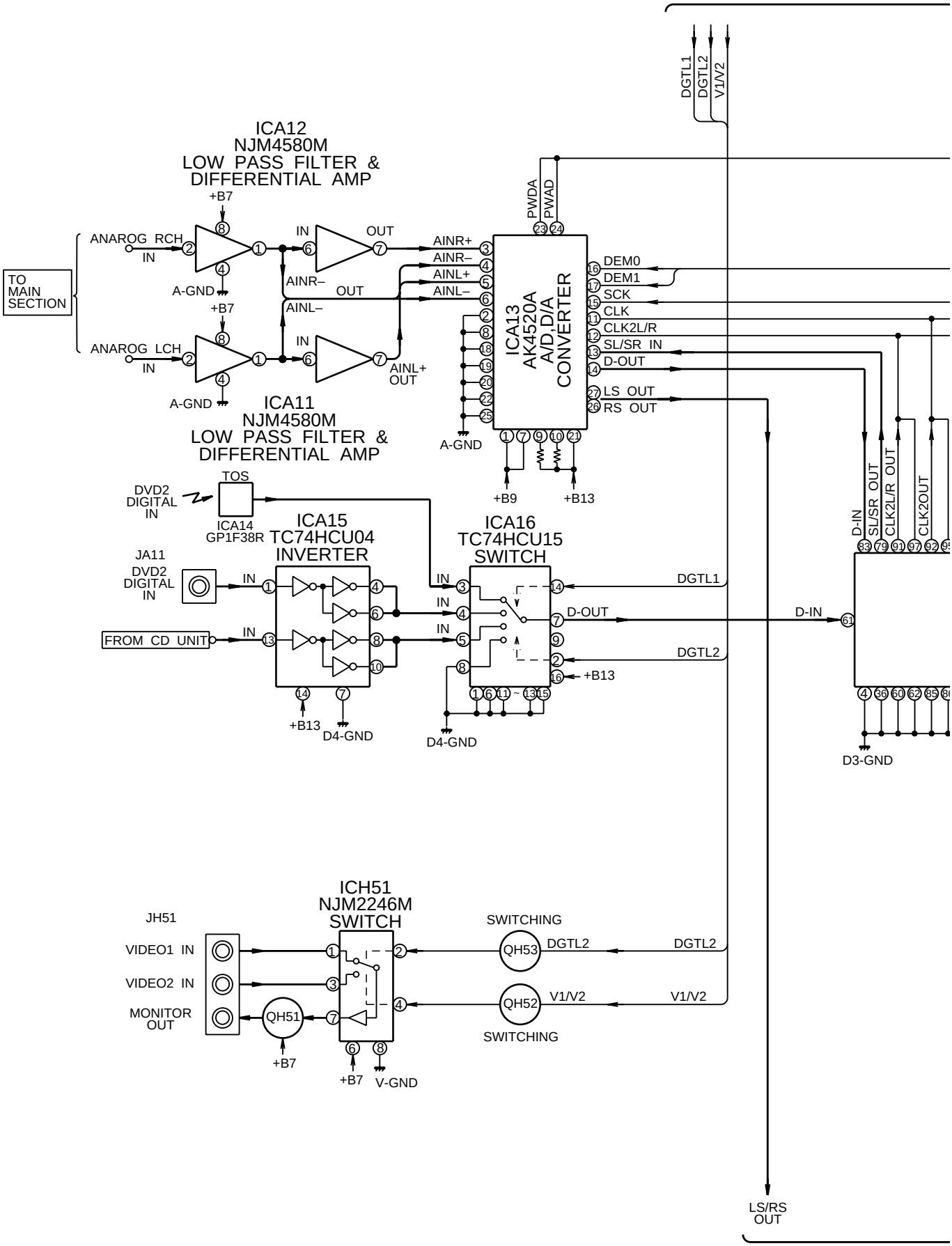


Figure 18 BLOCK DIAGRAM (2/5)

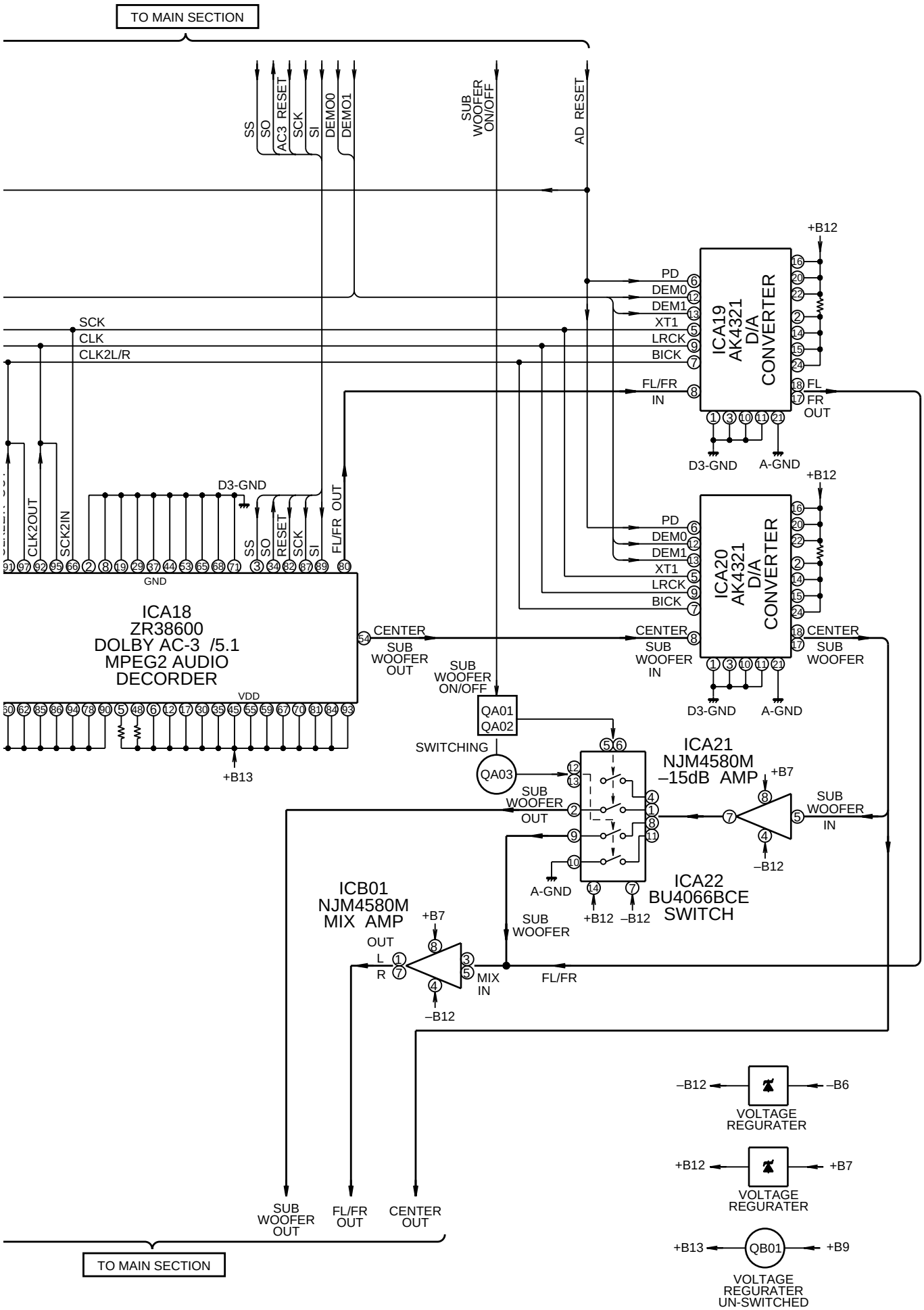


Figure 19 BLOCK DIAGRAM (3/5)

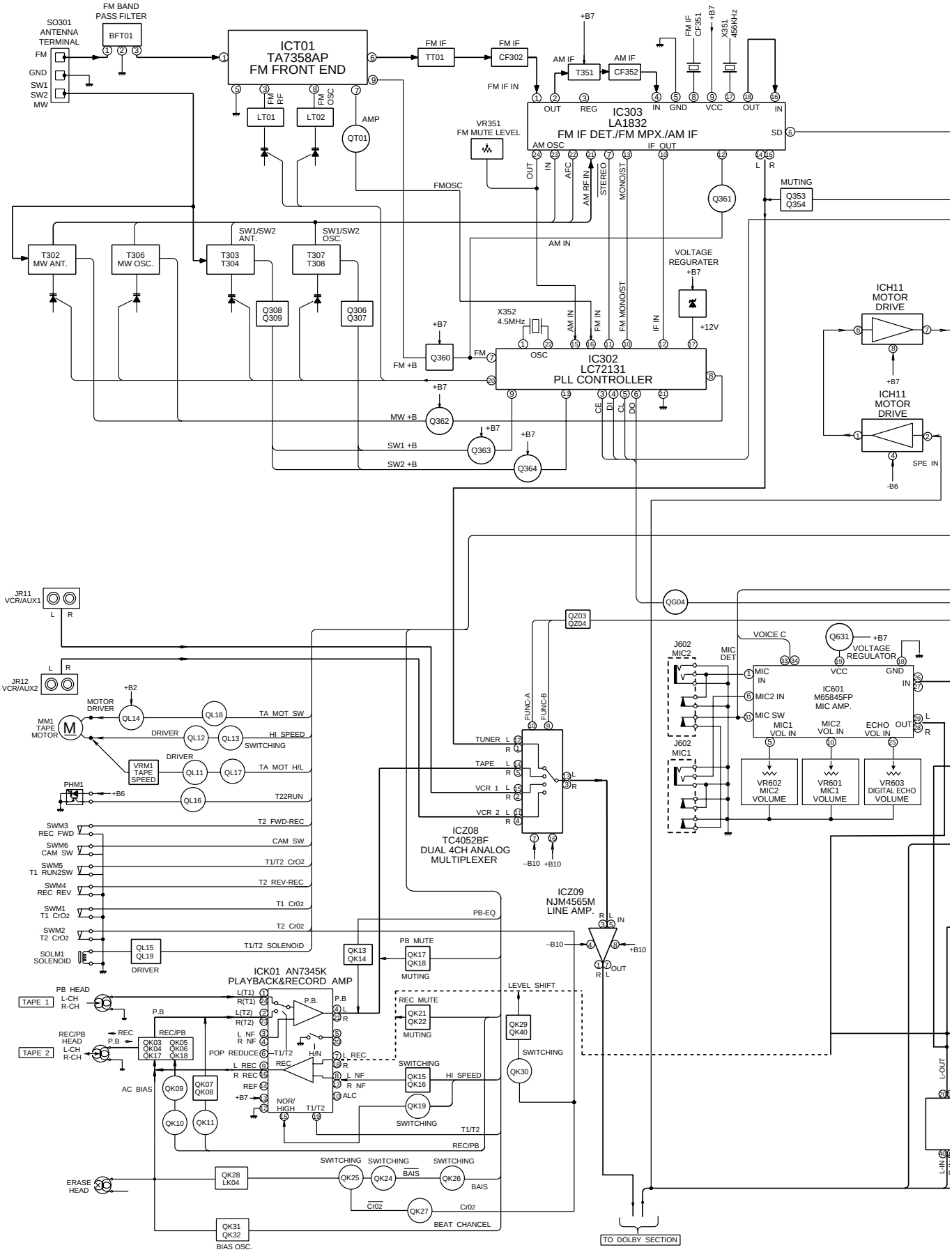


Figure 20 BLOCK DIAGRAM (4/5)

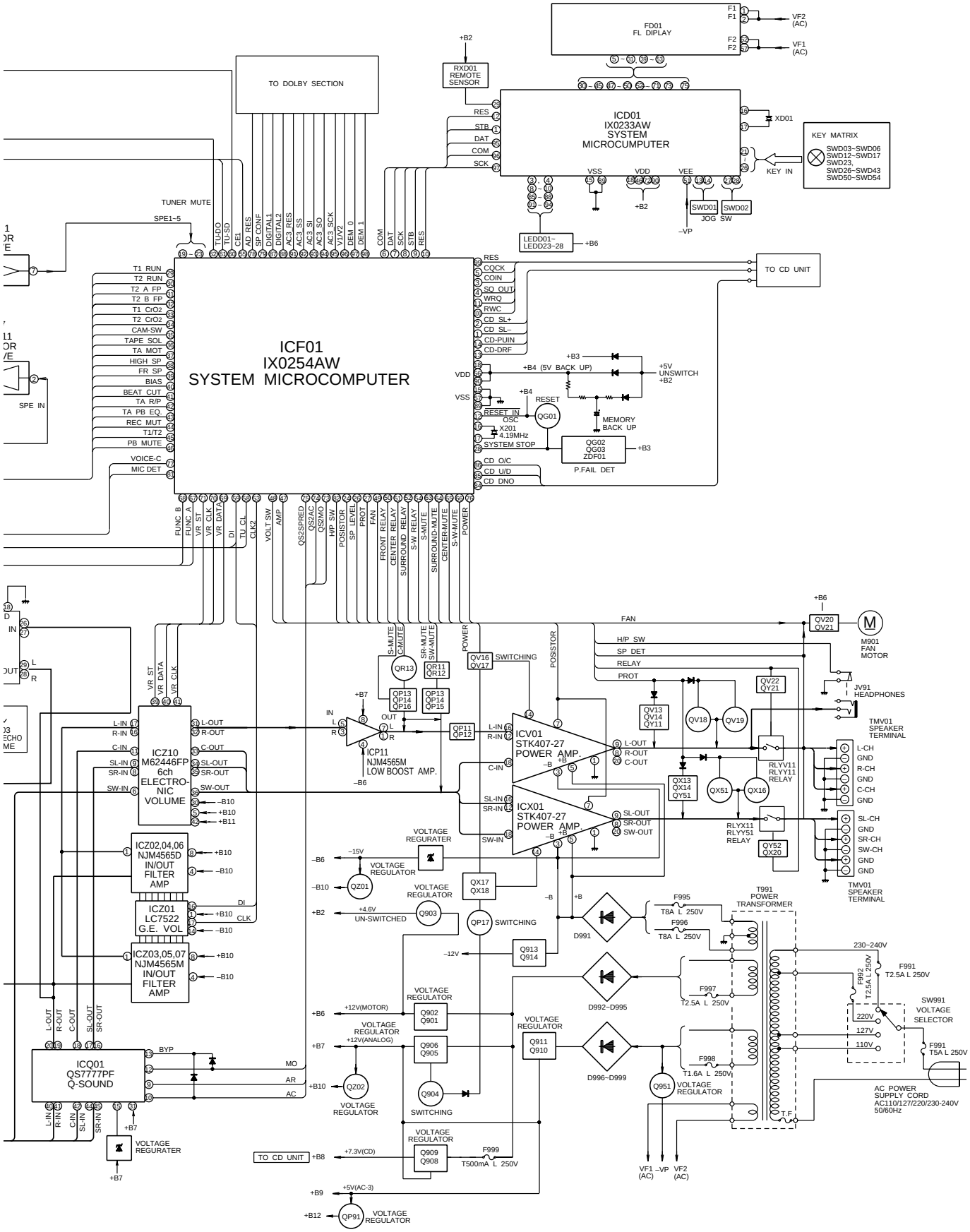
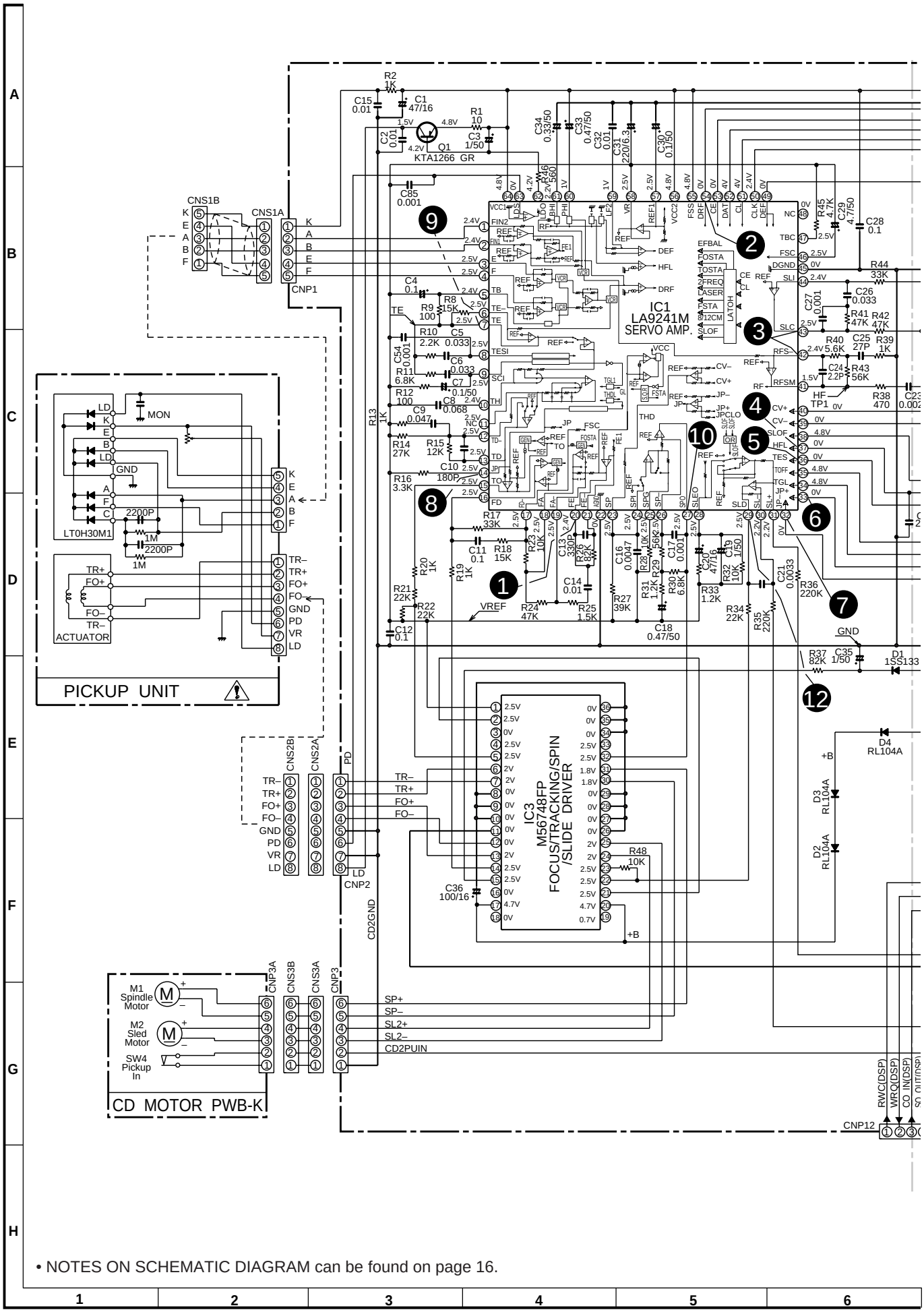
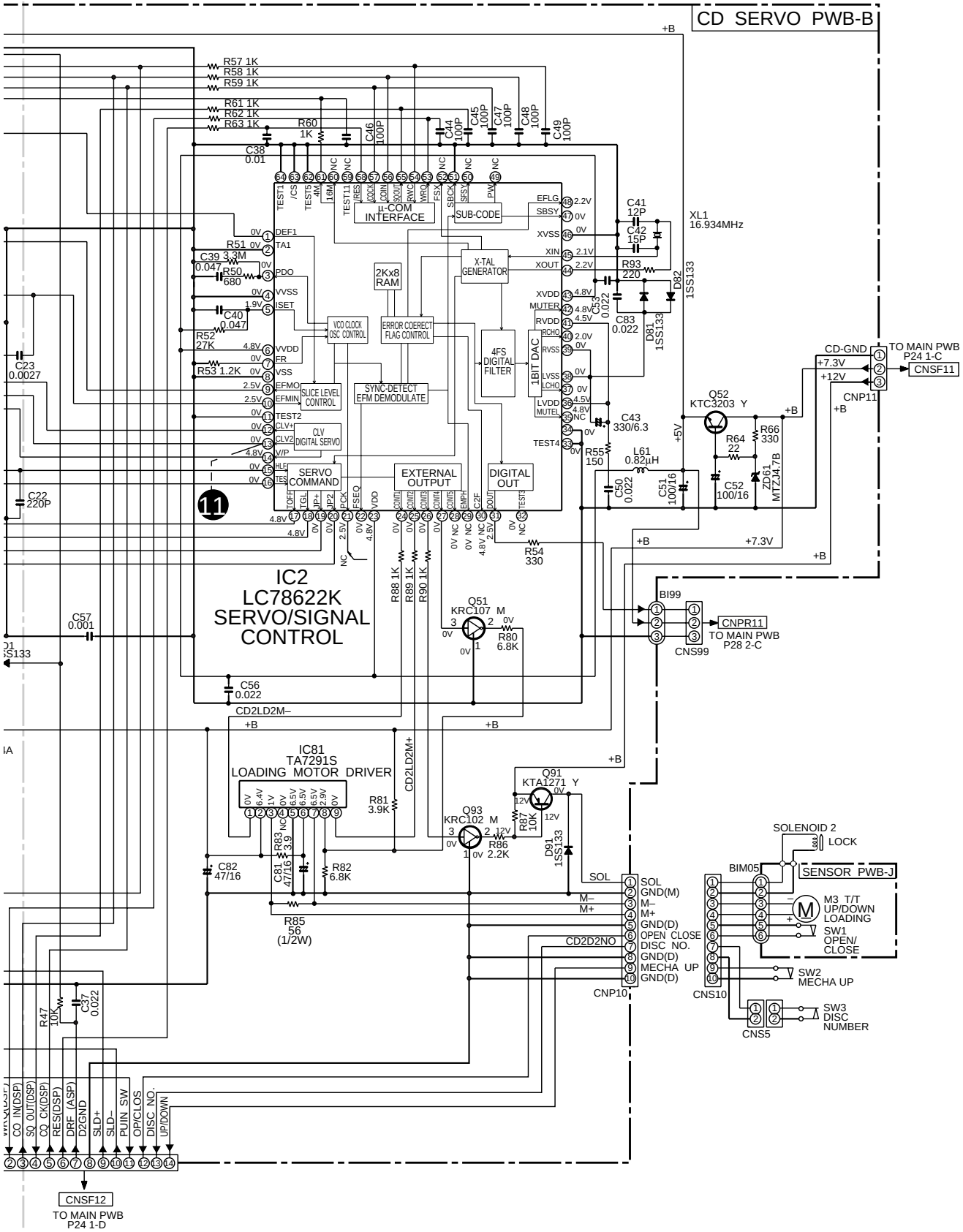


Figure 21 BLOCK DIAGRAM (5/5)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

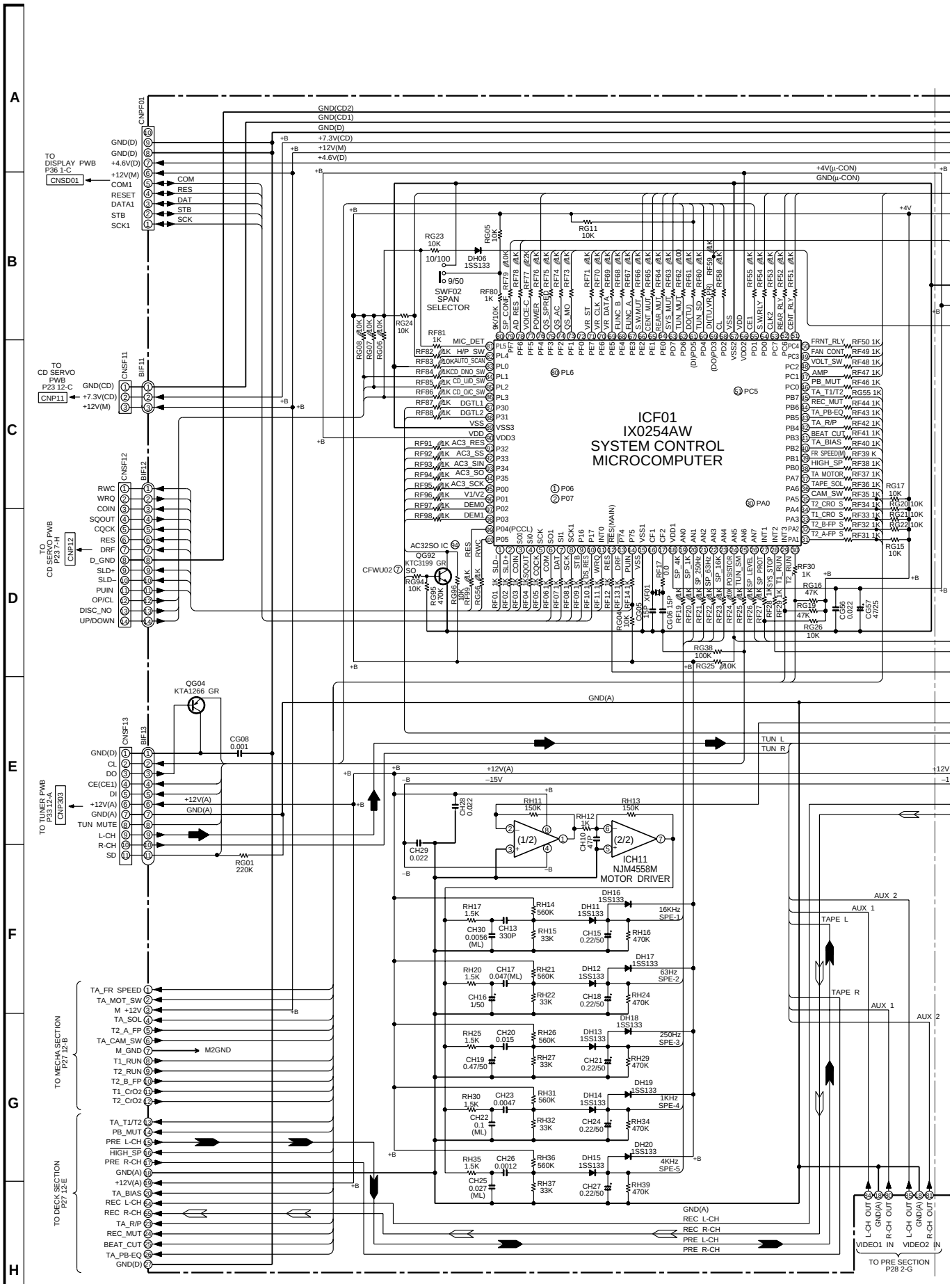
Figure 22 SCHEMATIC DIAGRAM (1/20)



• The numbers ❶ to ⓬ are waveform numbers shown in page 52.

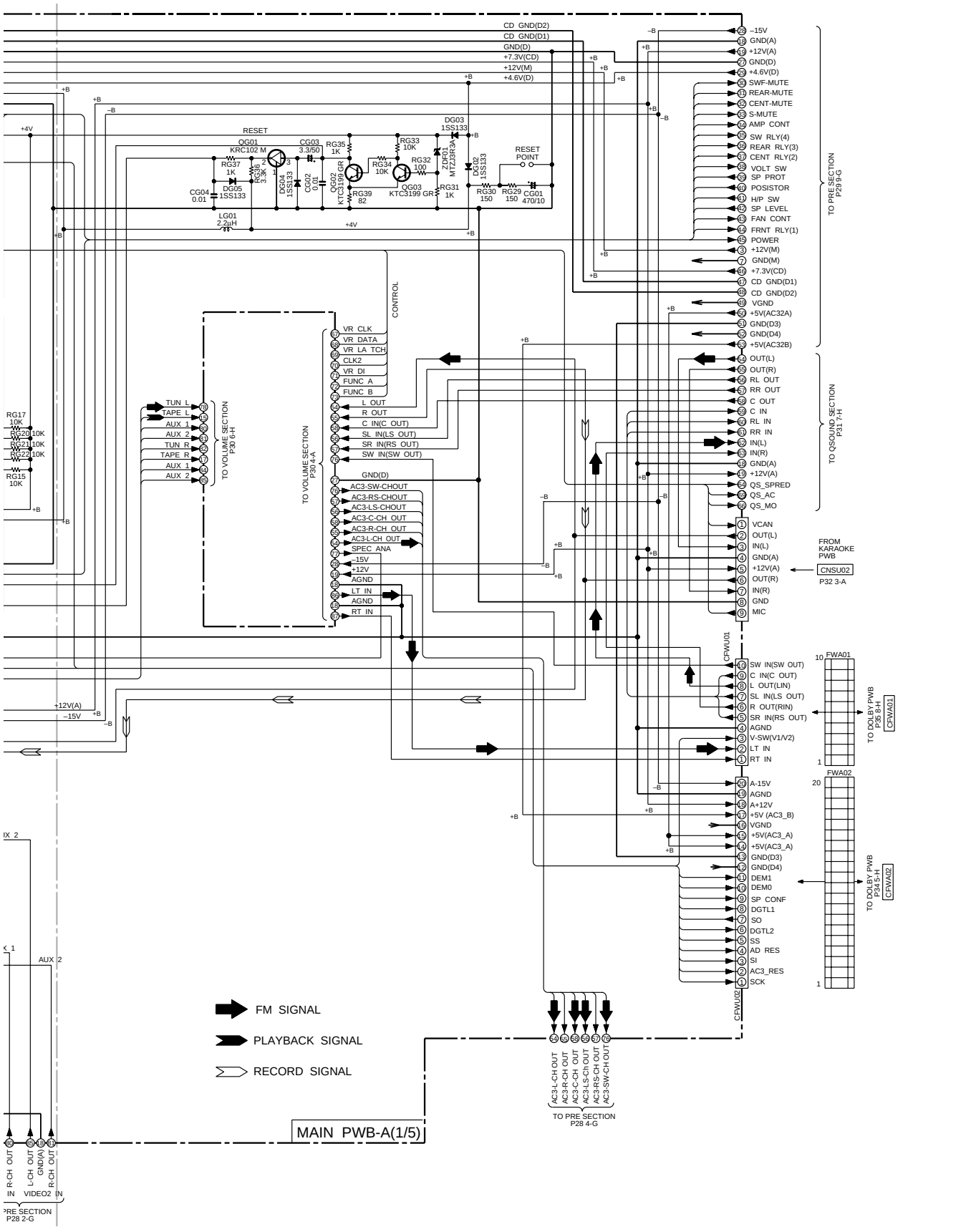
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (2/20)



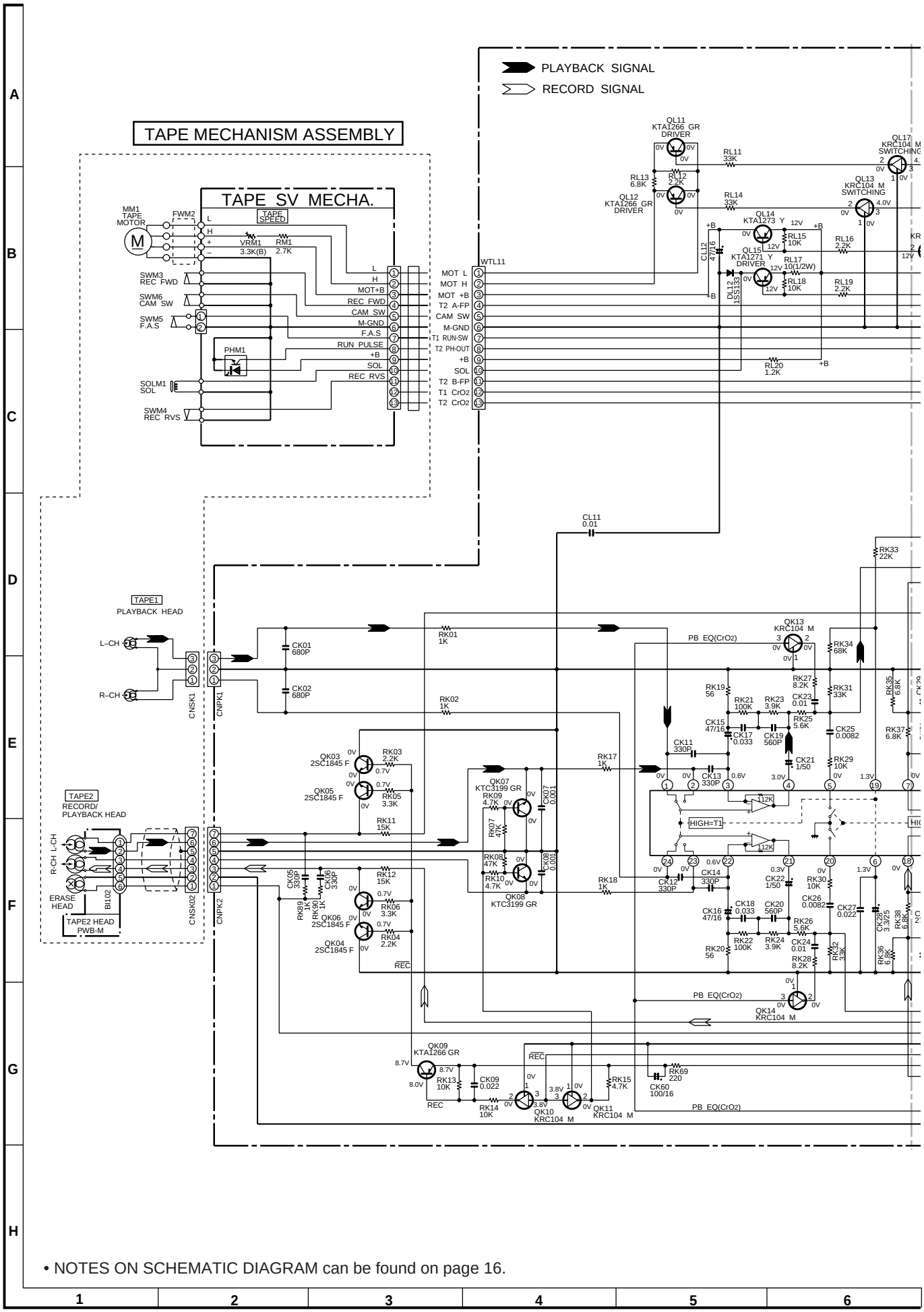
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 24 SCHEMATIC DIAGRAM (3/20)



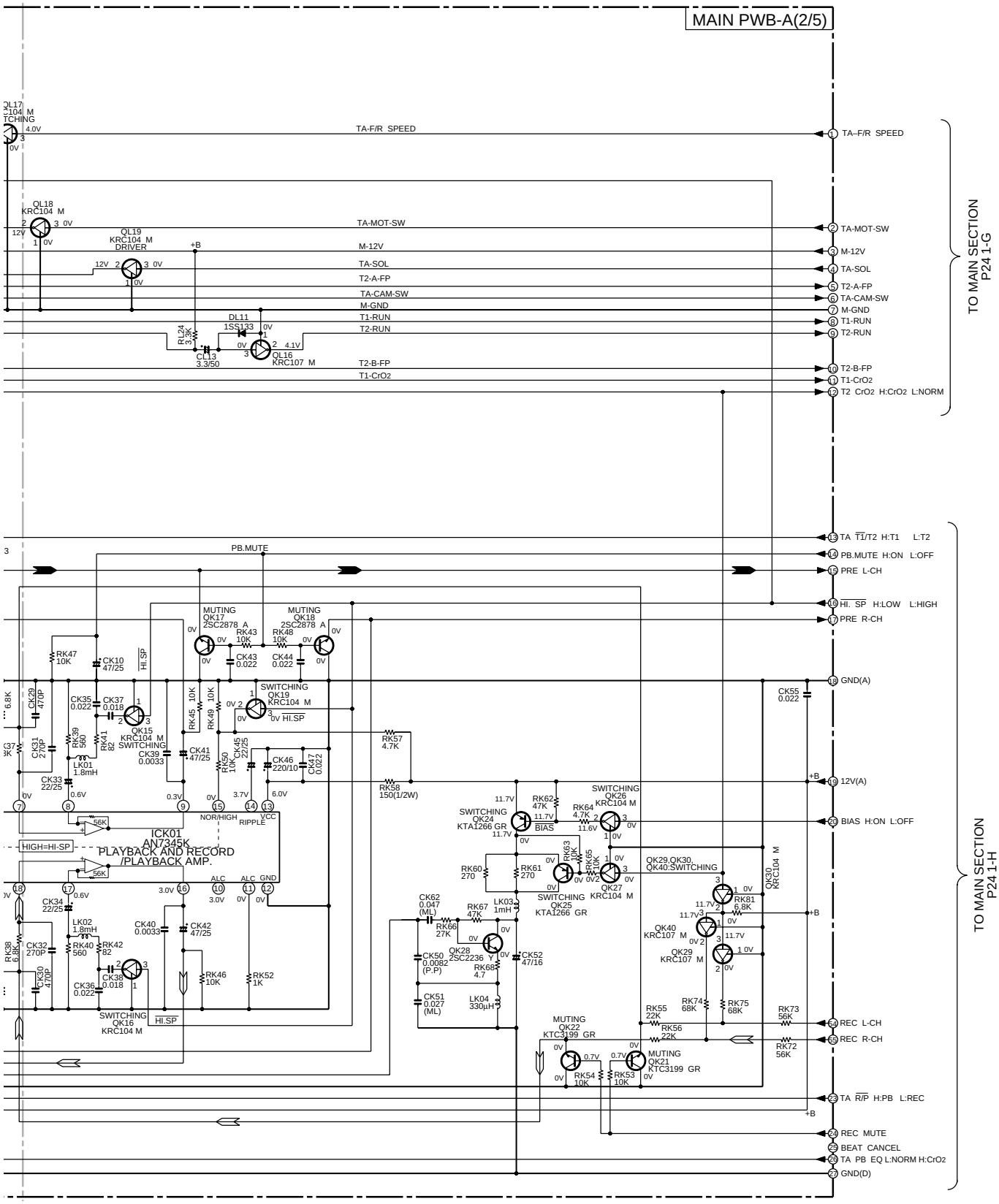
7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (4/20)



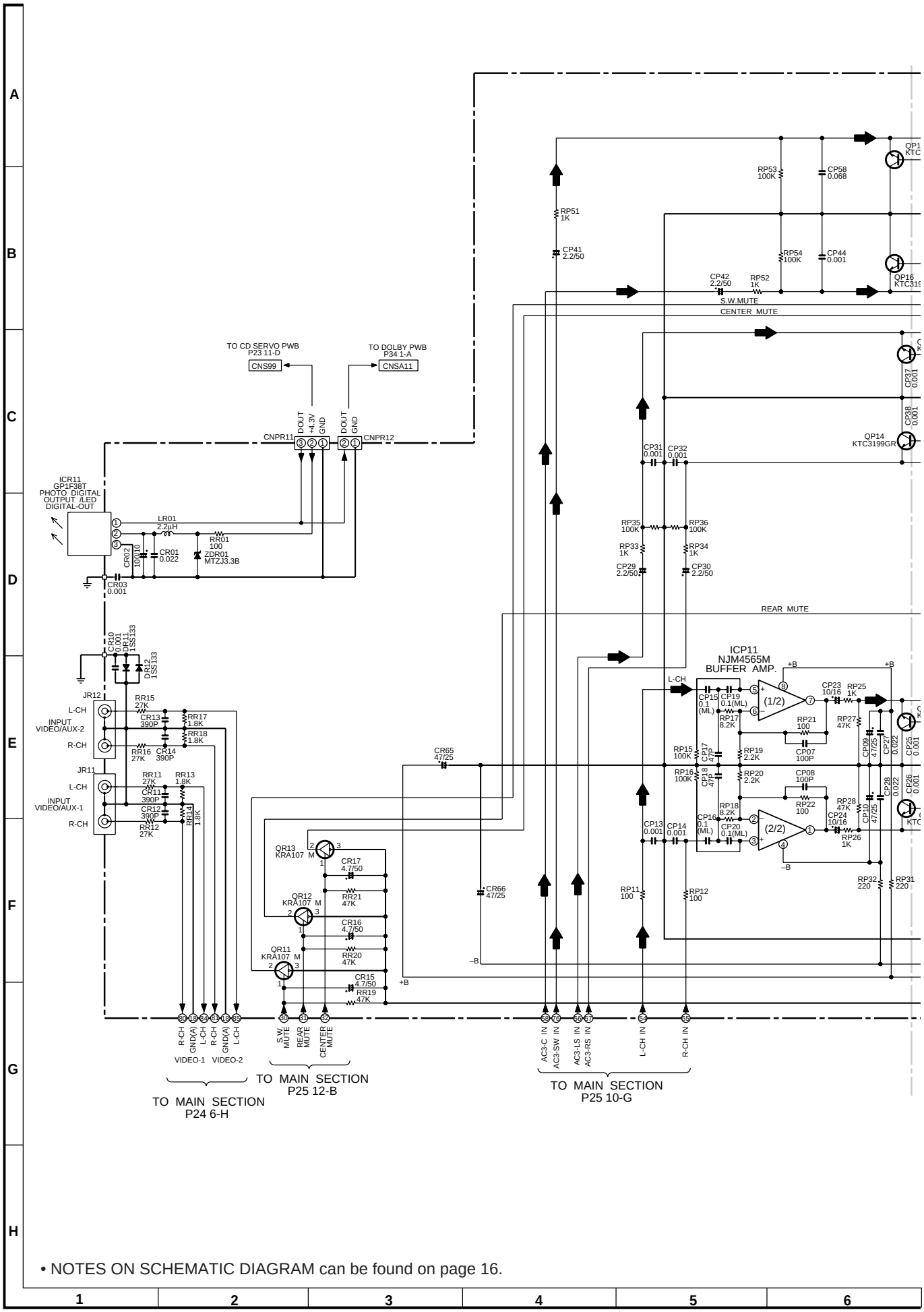
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 26 SCHEMATIC DIAGRAM (5/20)



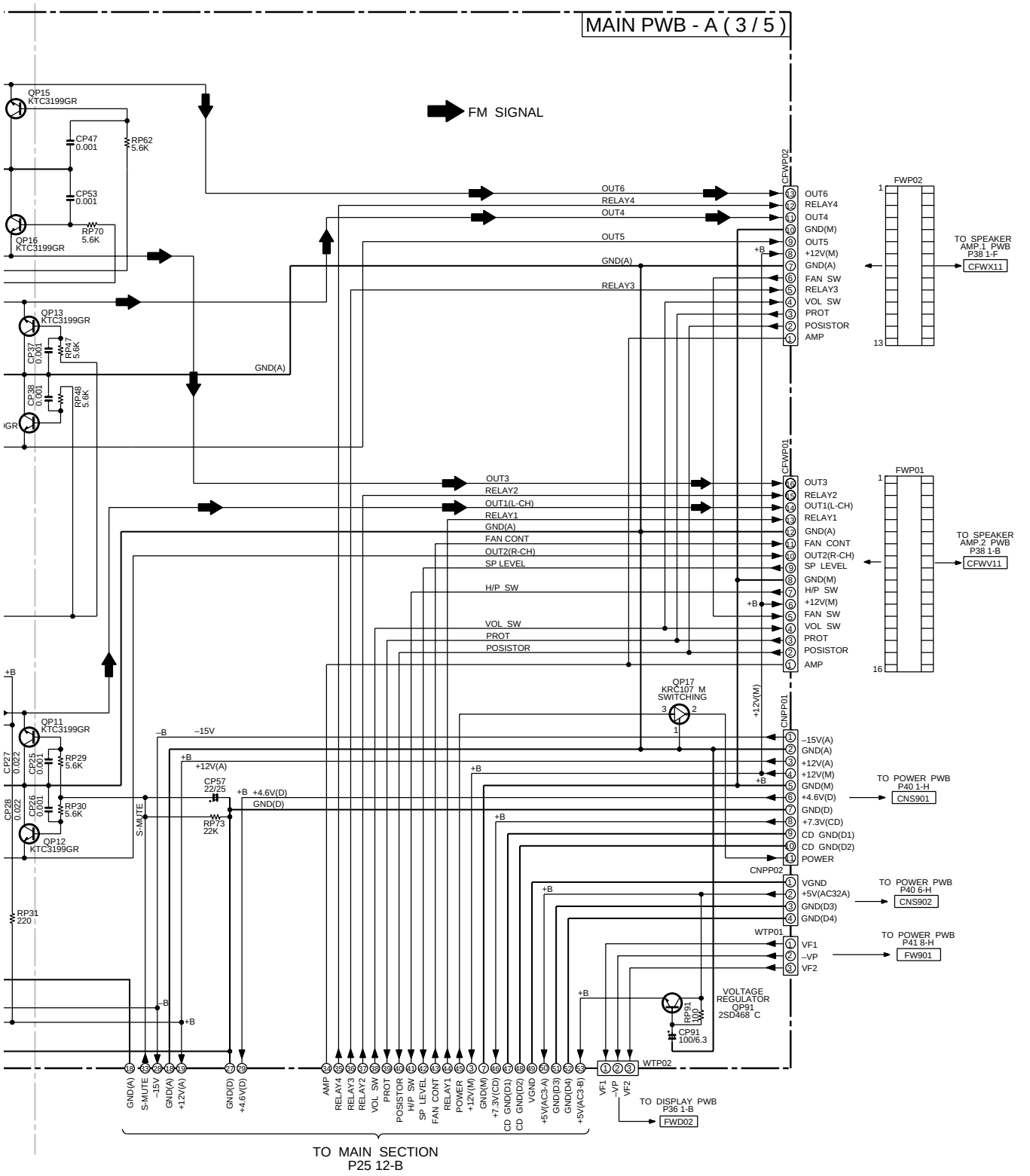
7	8	9	10	11	12

Figure 27 SCHEMATIC DIAGRAM (6/20)



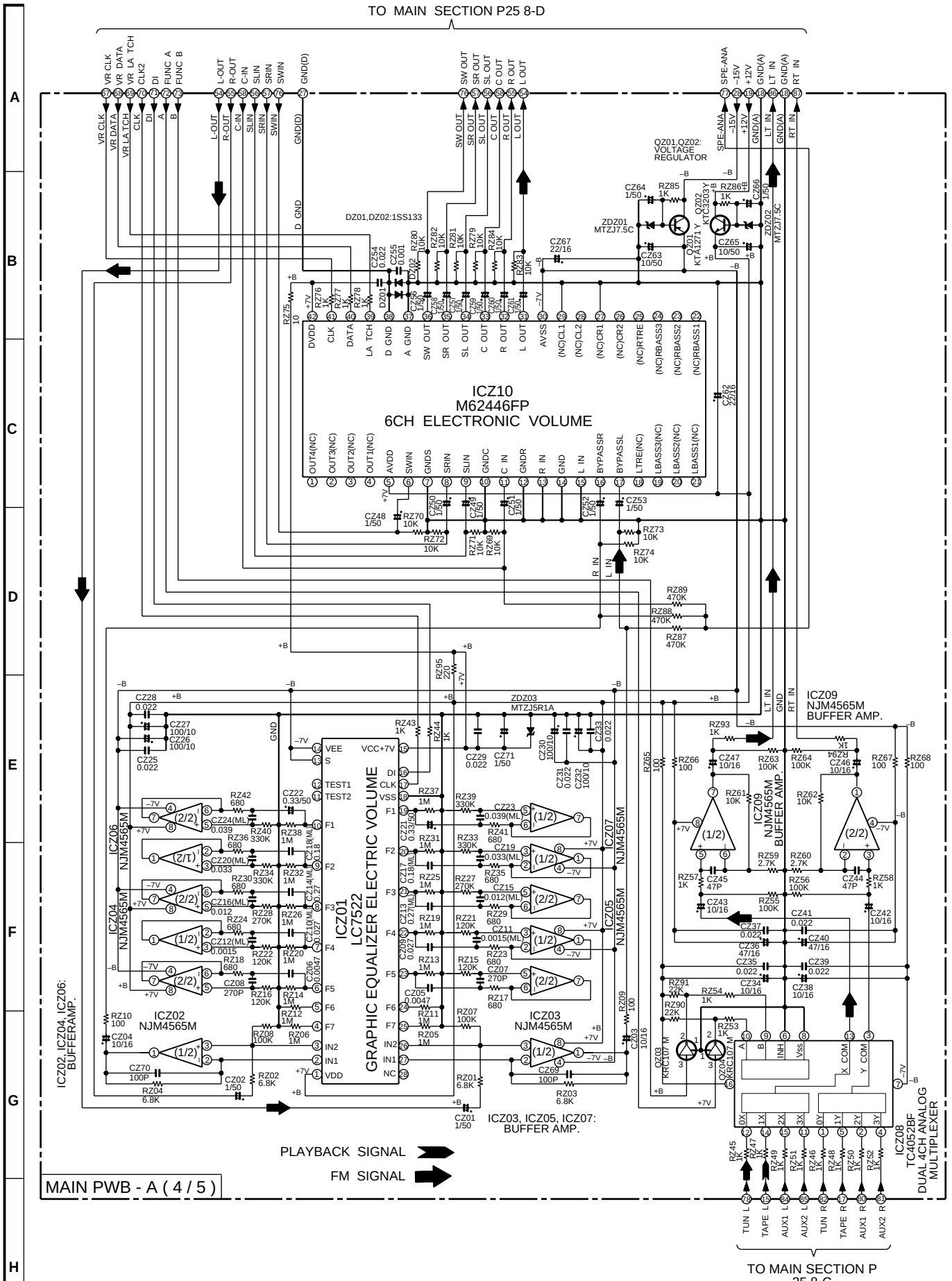
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 28 SCHEMATIC DIAGRAM (7/20)



7	8	9	10	11	12

Figure 29 SCHEMATIC DIAGRAM (8/20)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 30 SCHEMATIC DIAGRAM (9/20)

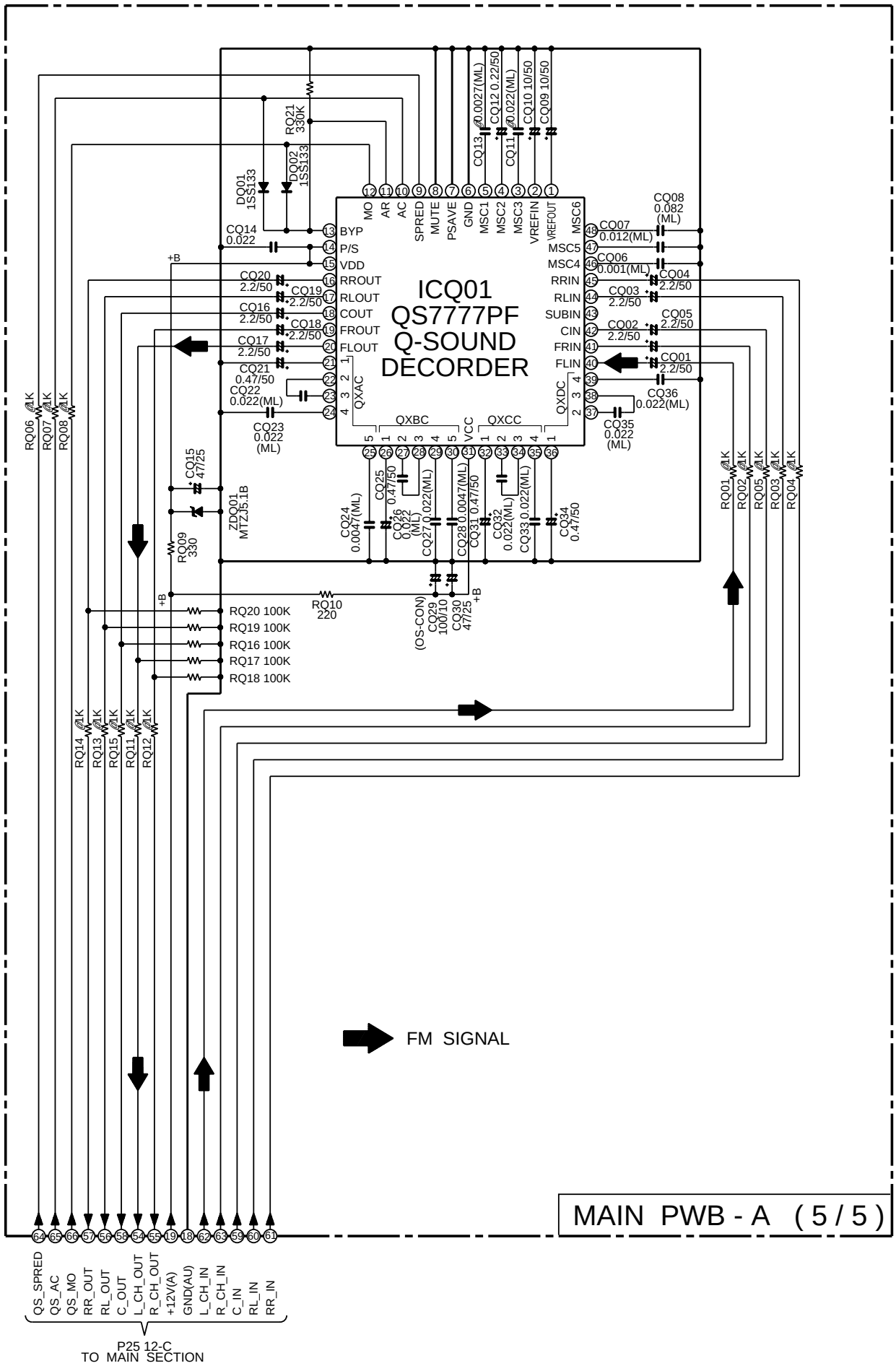
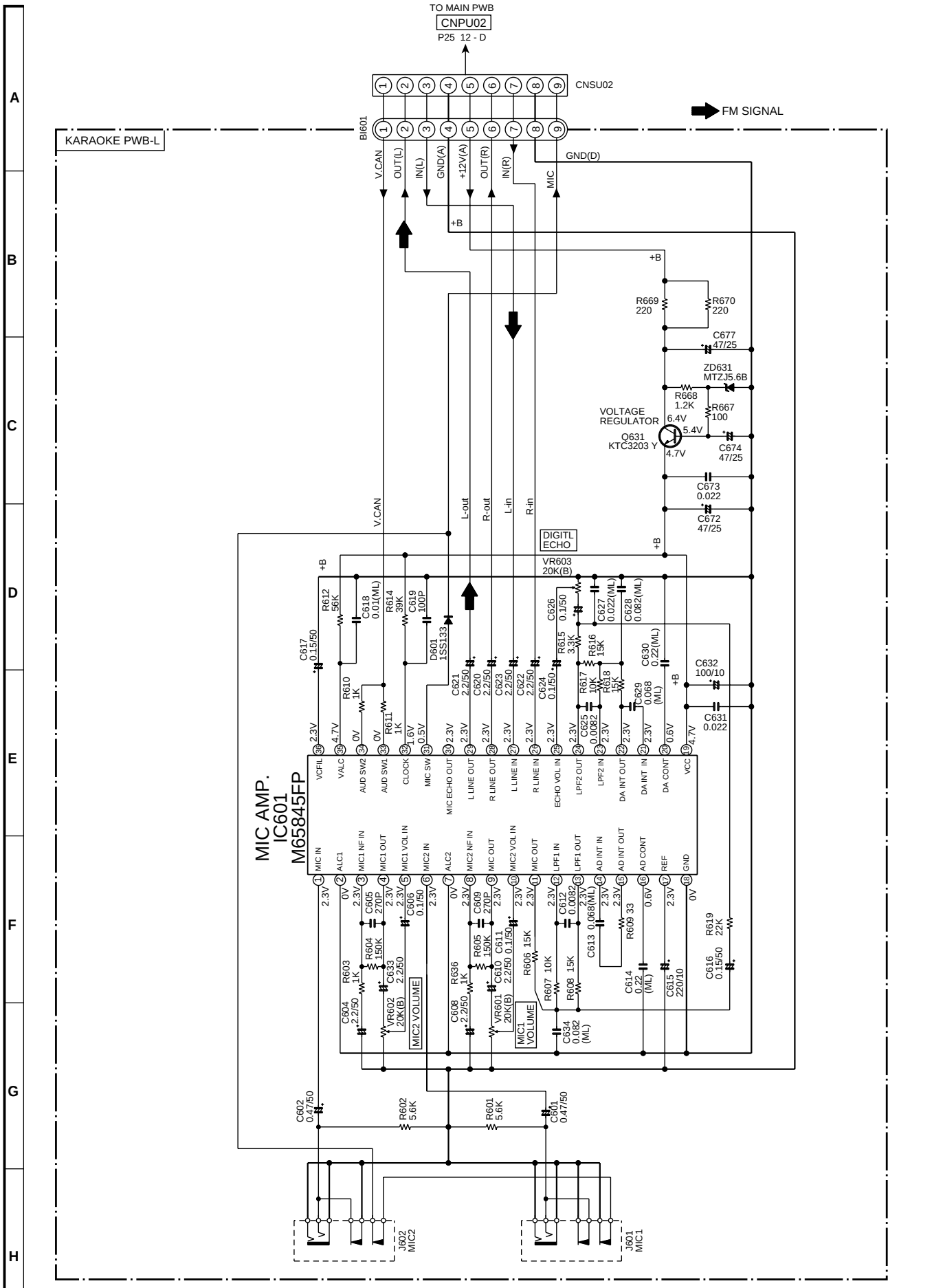


Figure 31 SCHEMATIC DIAGRAM (10/20)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 32 SCHEMATIC DIAGRAM (11/20)

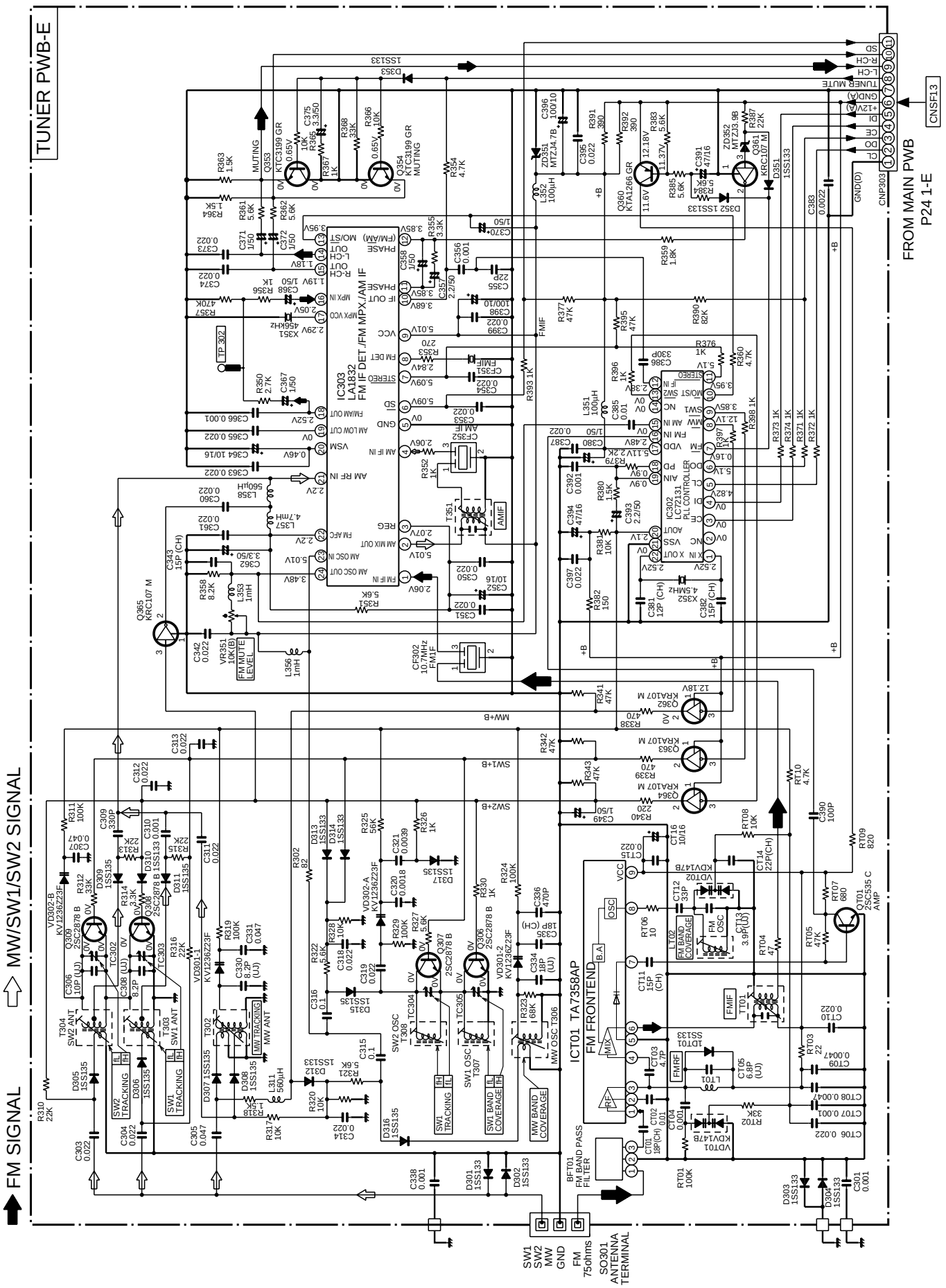


Figure 33 SCHEMATIC DIAGRAM (12/20)

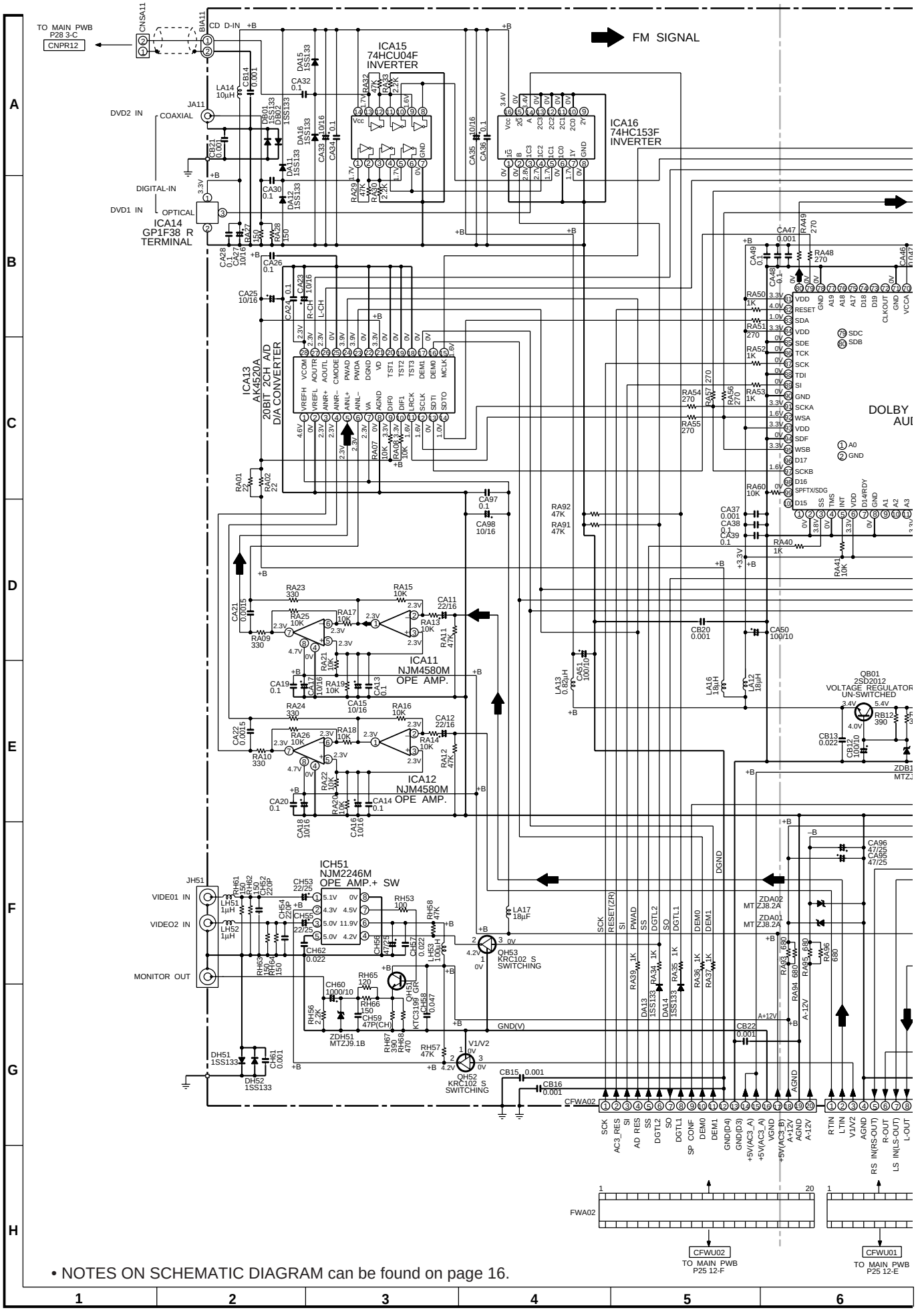
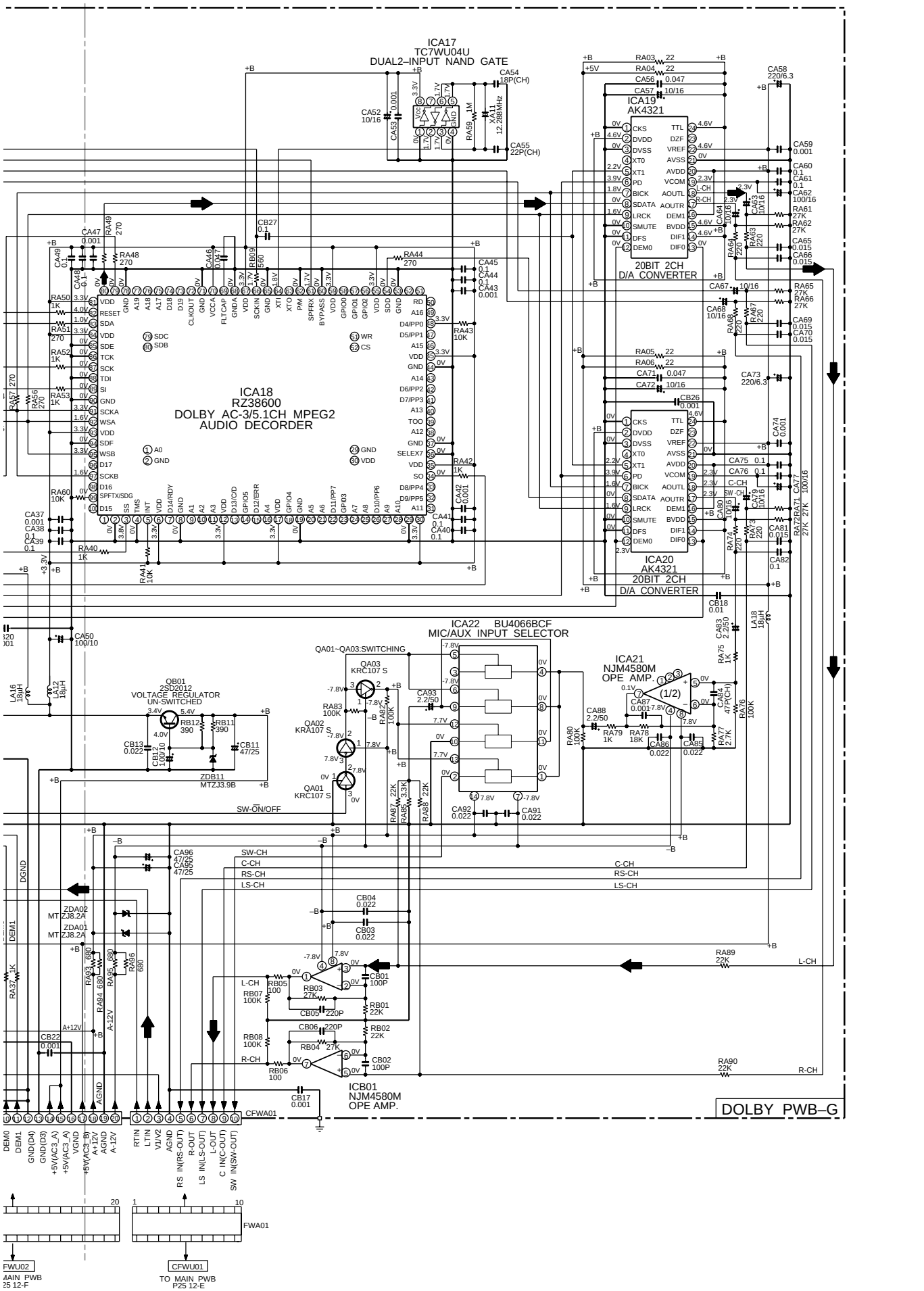


Figure 34 SCHEMATIC DIAGRAM (13/20)



7	8	9	10	11	12

Figure 35 SCHEMATIC DIAGRAM (14/20)

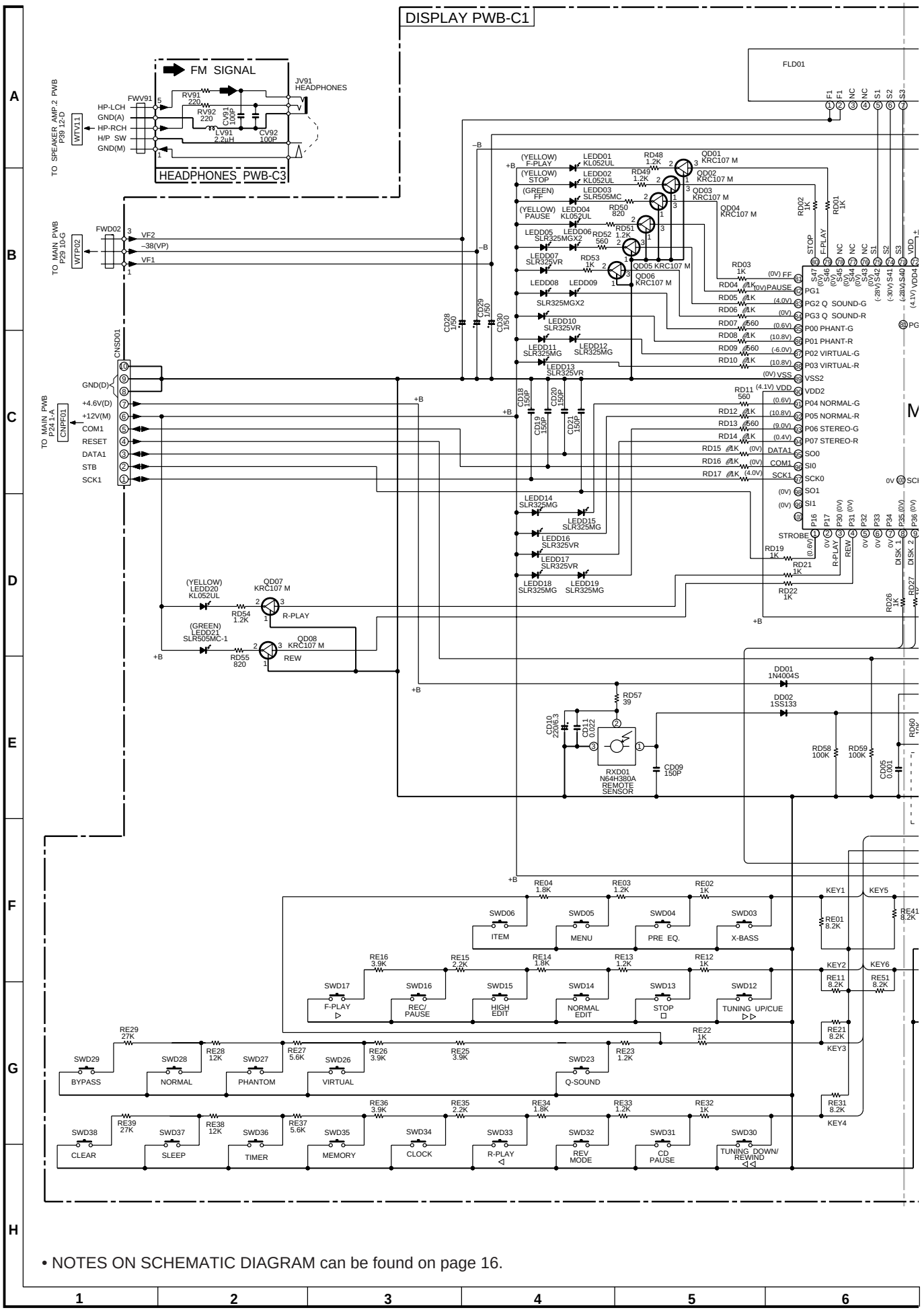
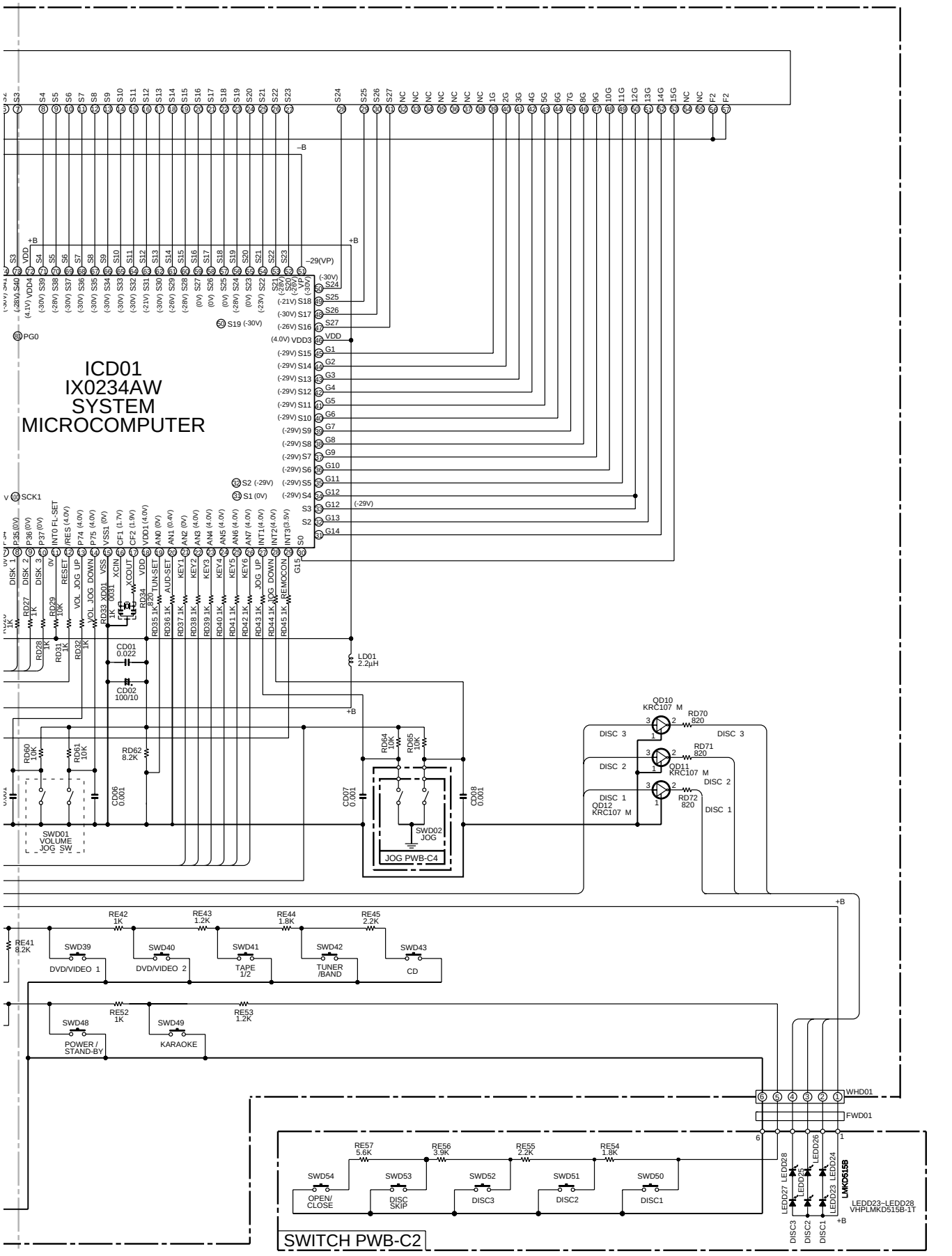
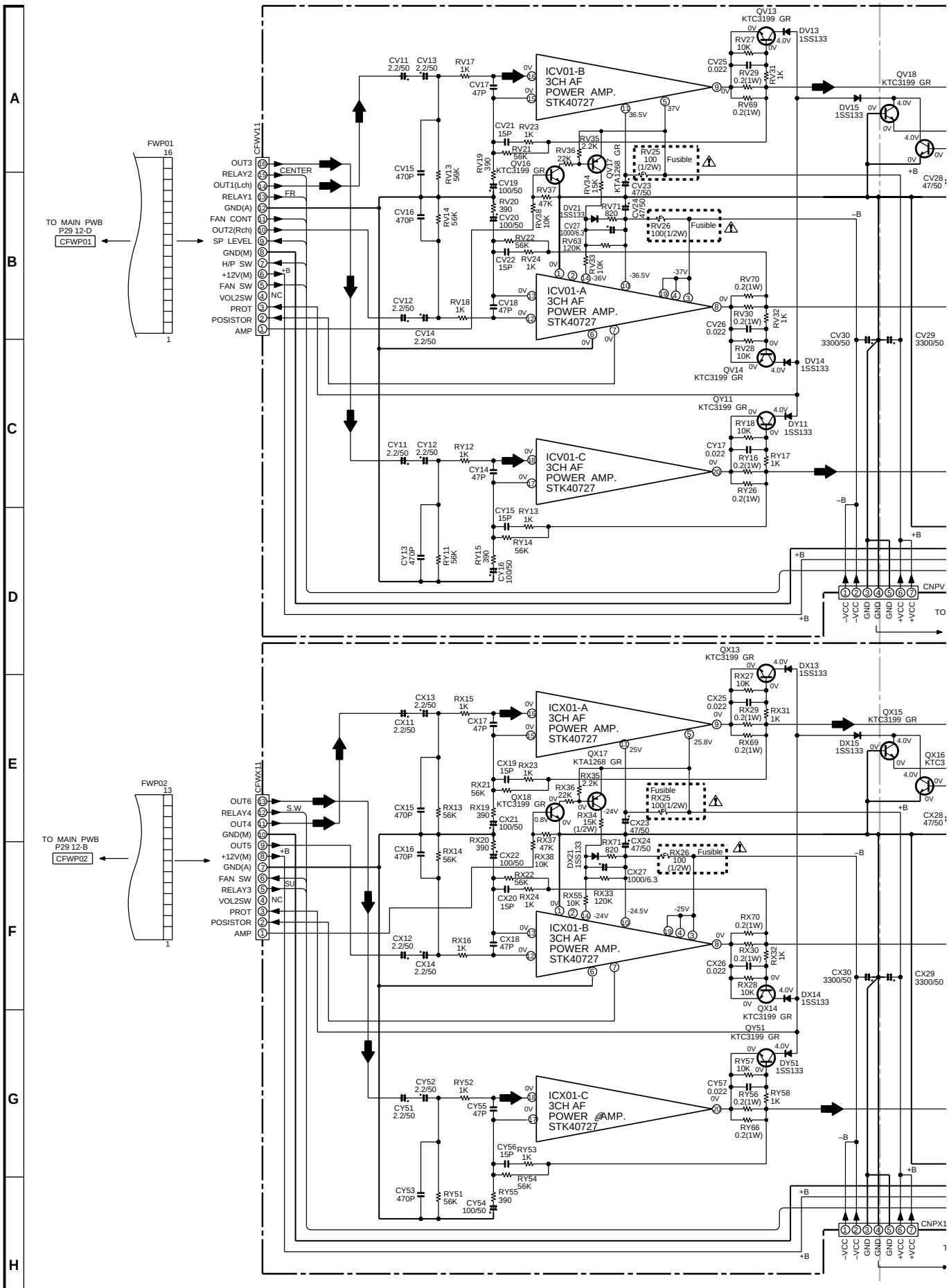


Figure 36 SCHEMATIC DIAGRAM (15/20)



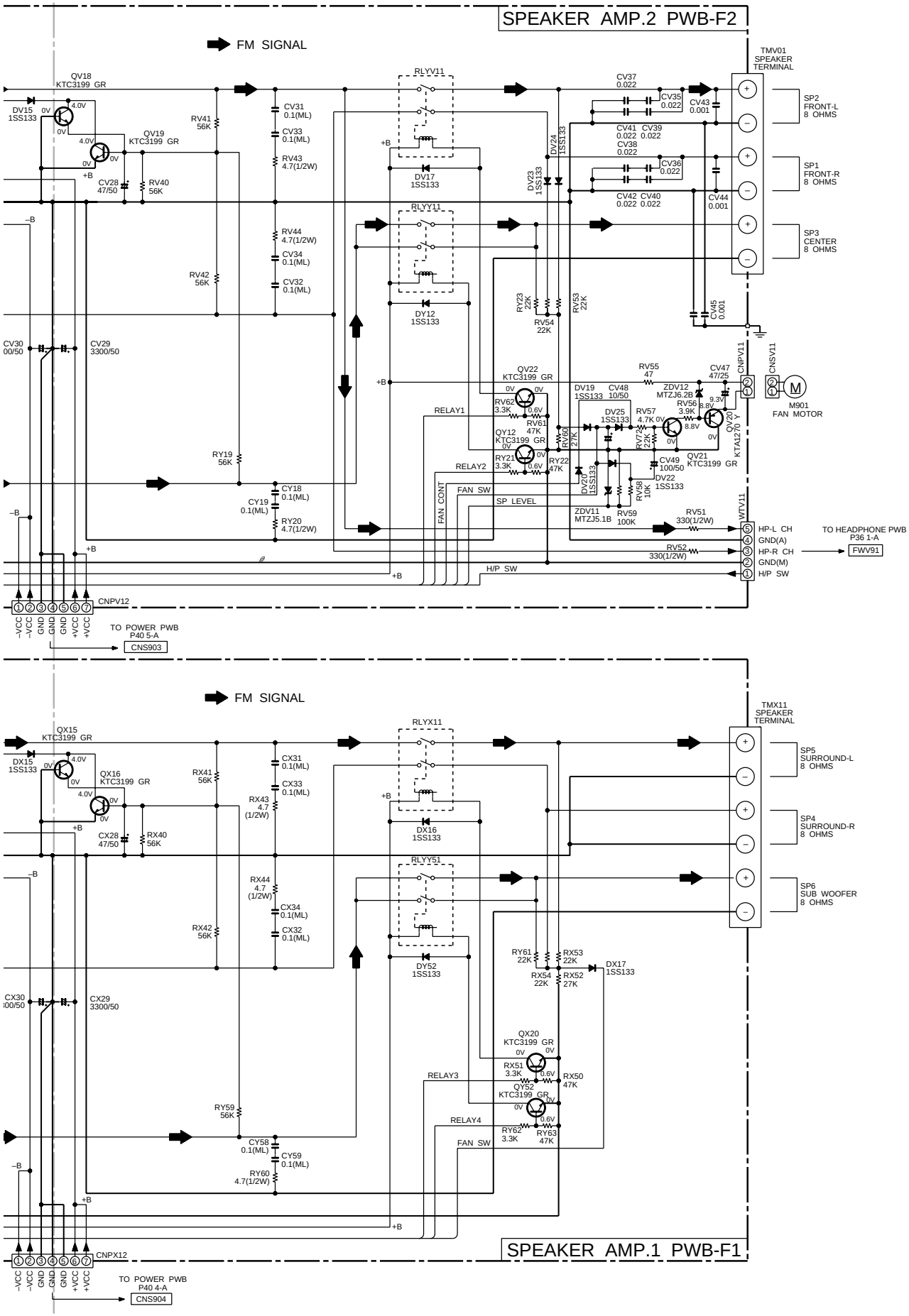
7	8	9	10	11	12

Figure 37 SCHEMATIC DIAGRAM (16/20)



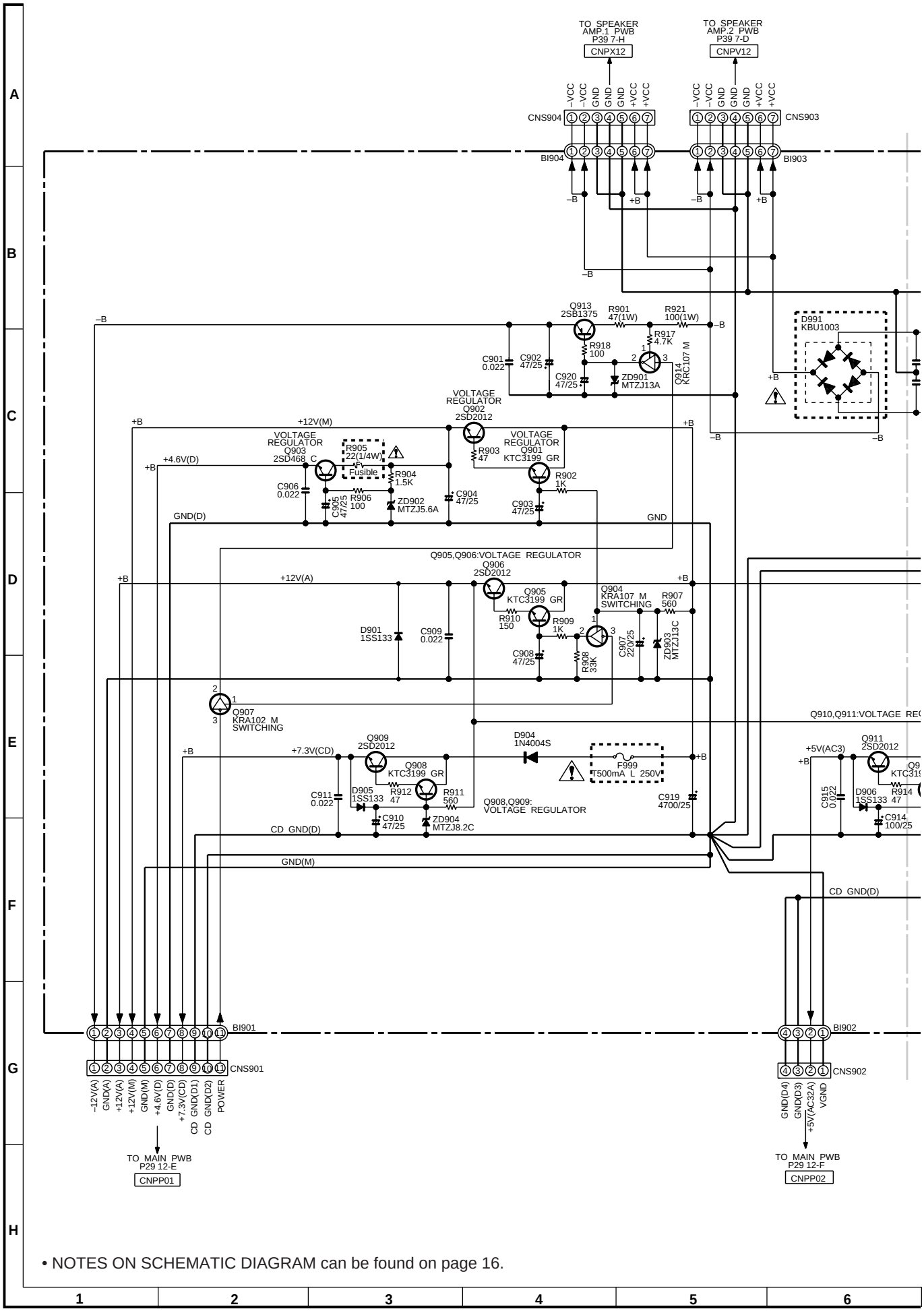
• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 38 SCHEMATIC DIAGRAM (17/20)



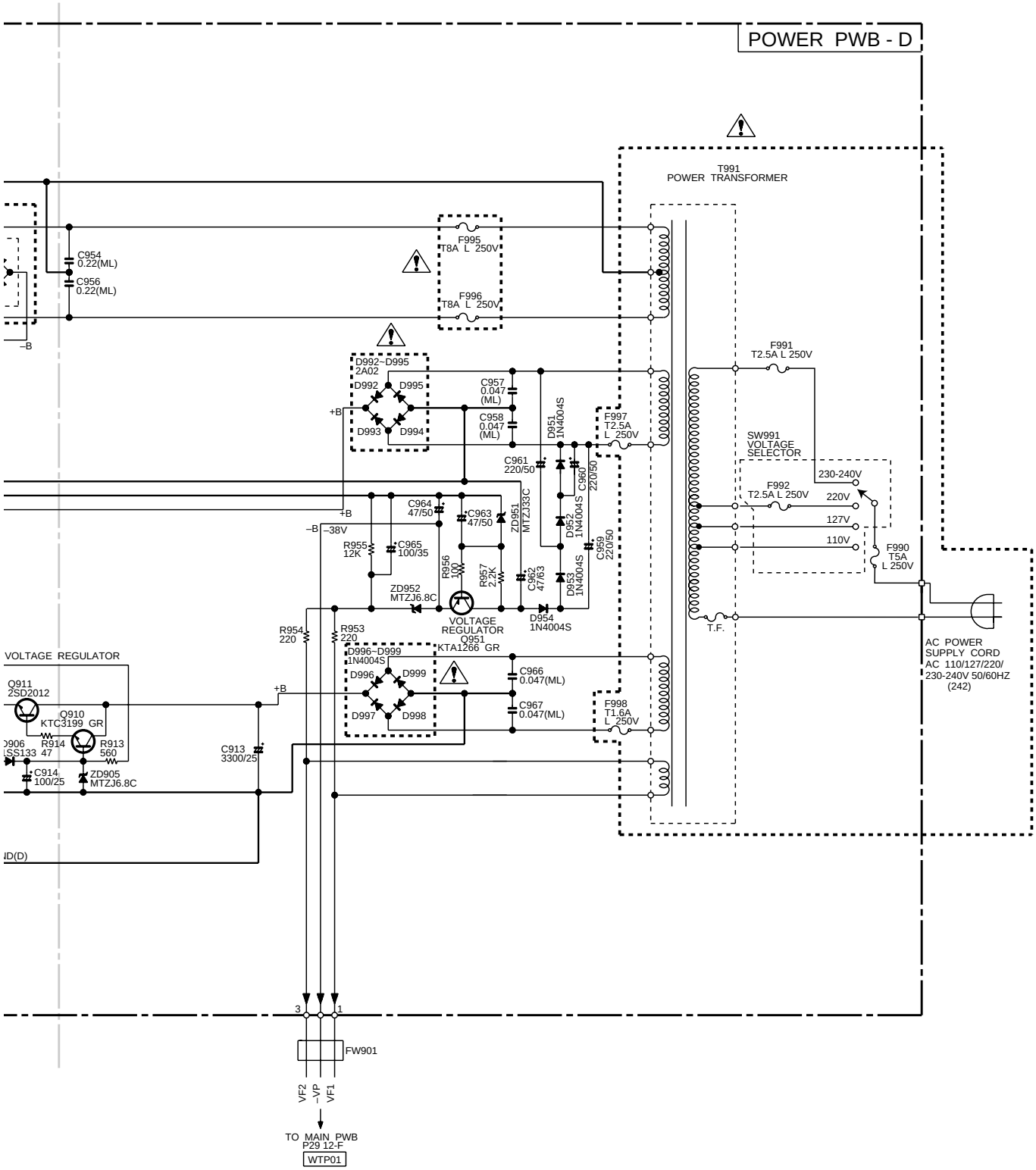
7	8	9	10	11	12

Figure 39 SCHEMATIC DIAGRAM (18/20)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 16.

Figure 40 SCHEMATIC DIAGRAM (19/20)



7	8	9	10	11	12

Figure 41 SCHEMATIC DIAGRAM (20/20)

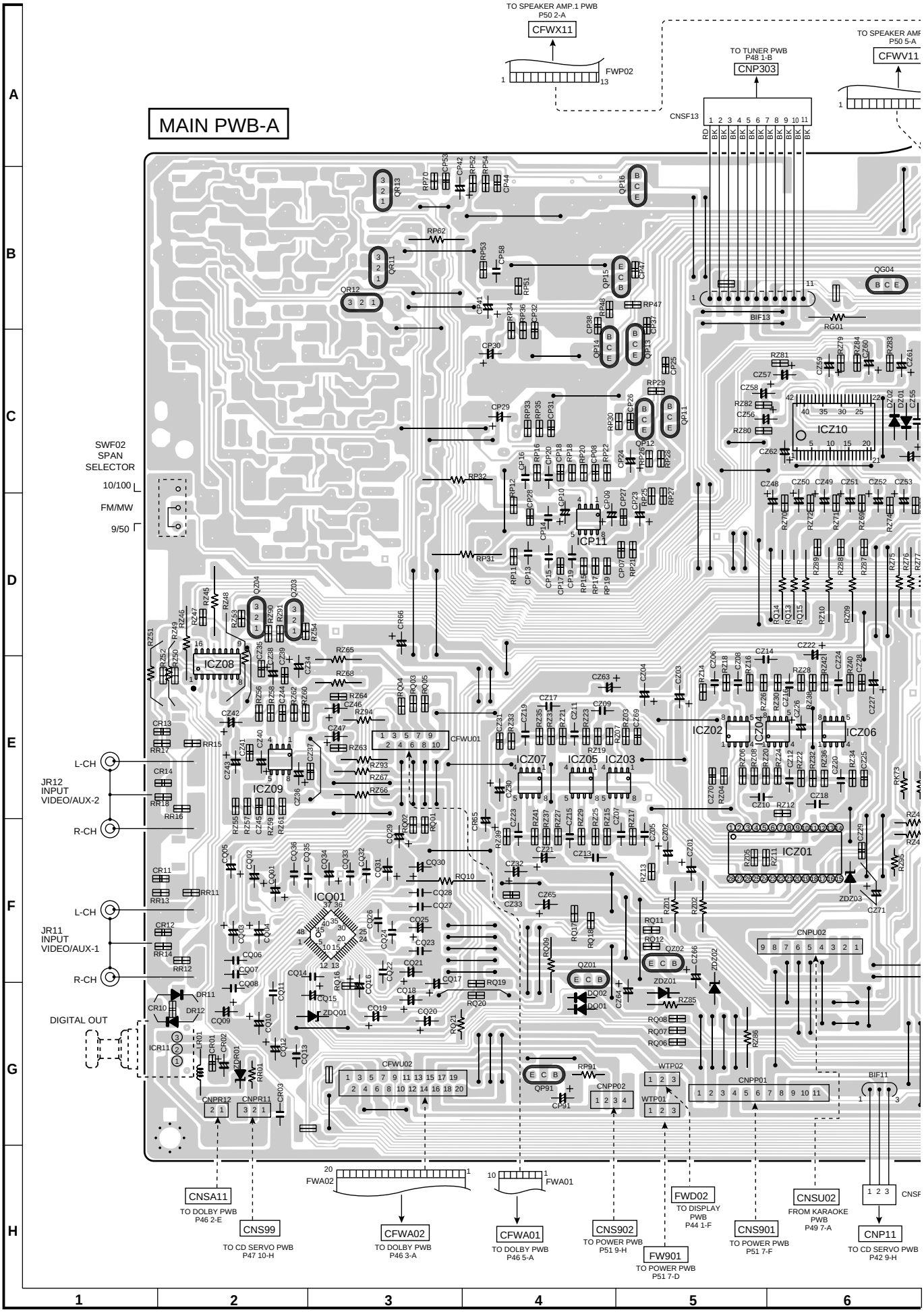


Figure 42 WIRING SIDE OF P.W.BOARD (1/10)

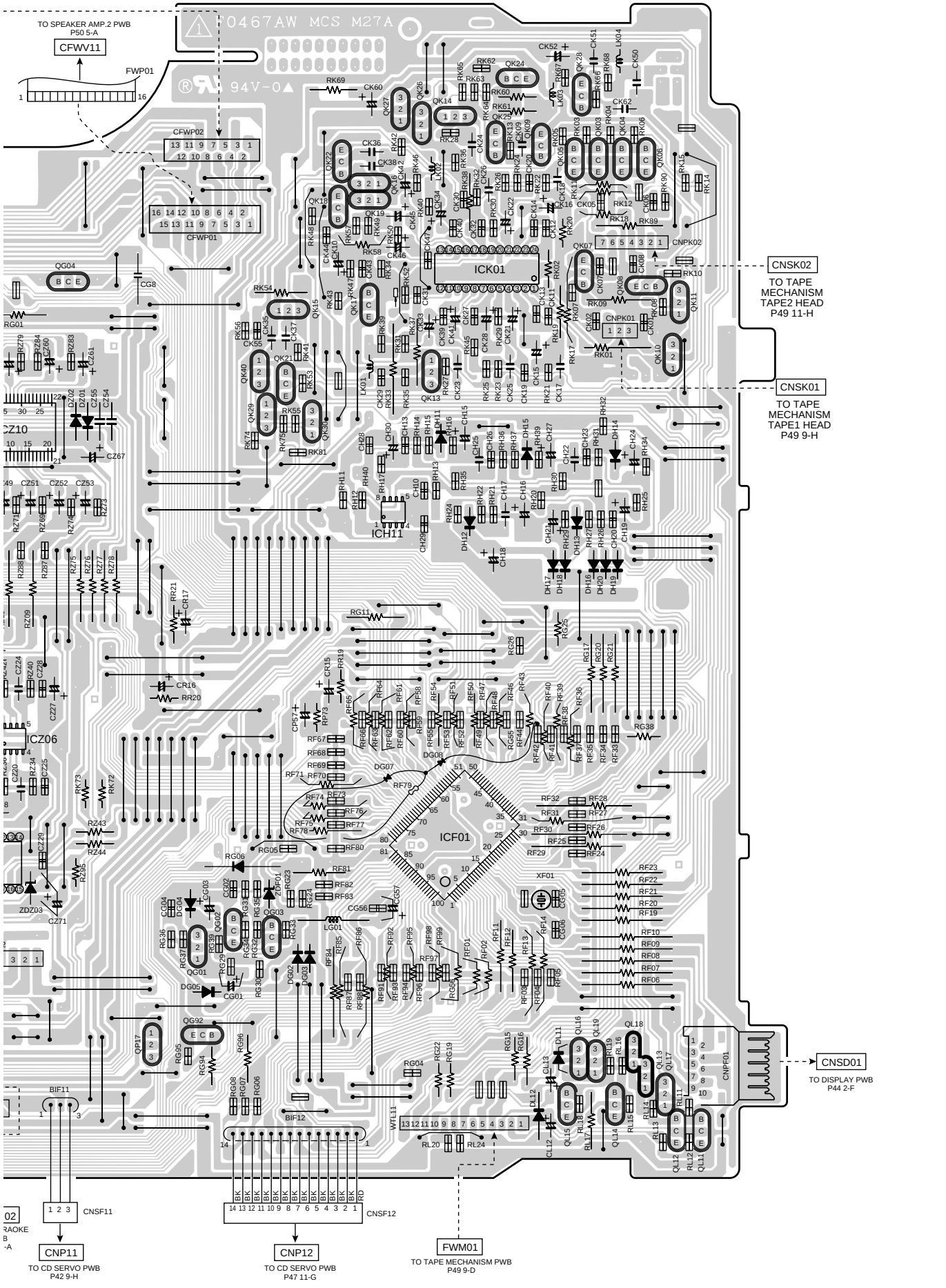


Figure 43 WIRING SIDE OF P.W.BOARD (2/10)

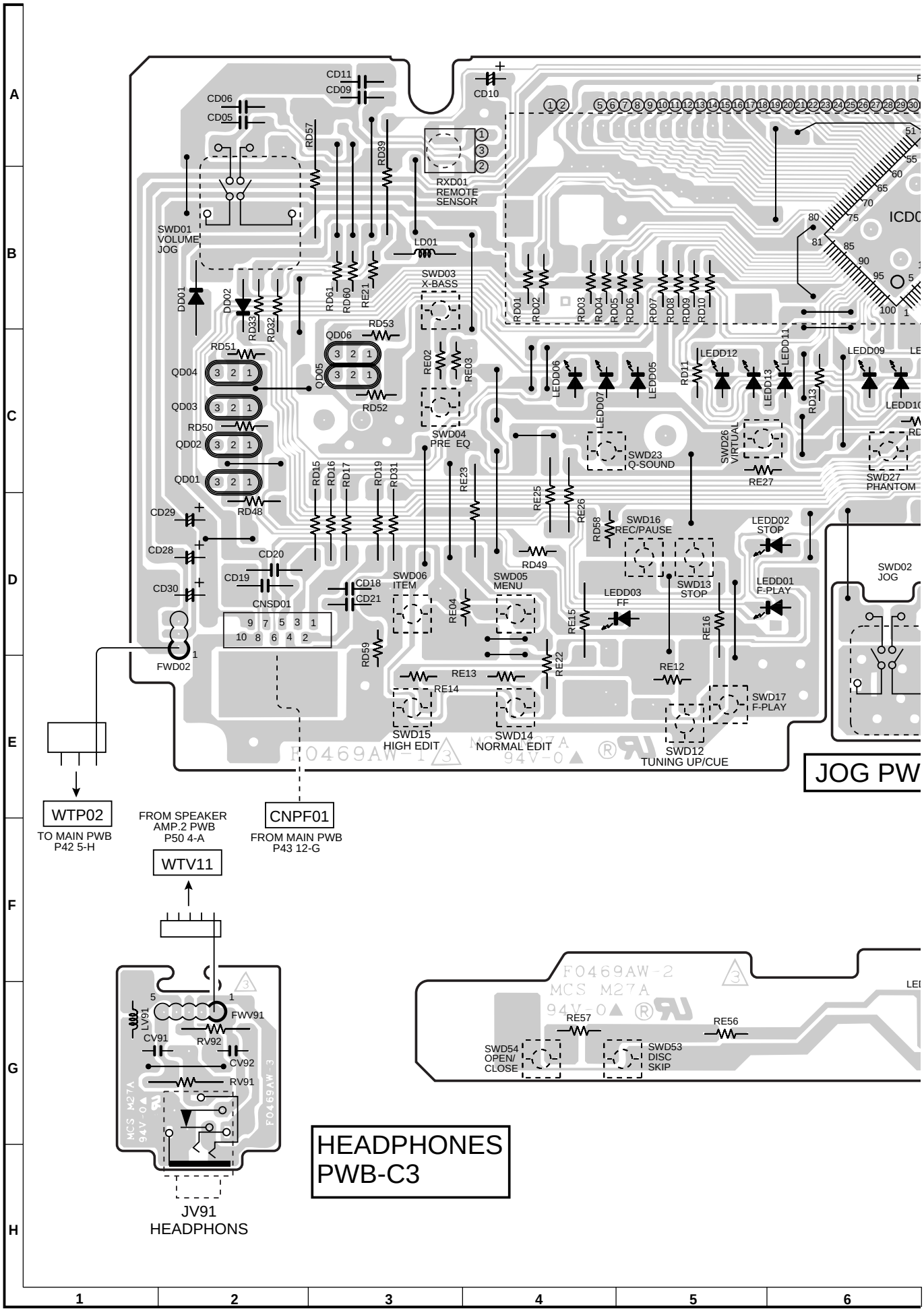
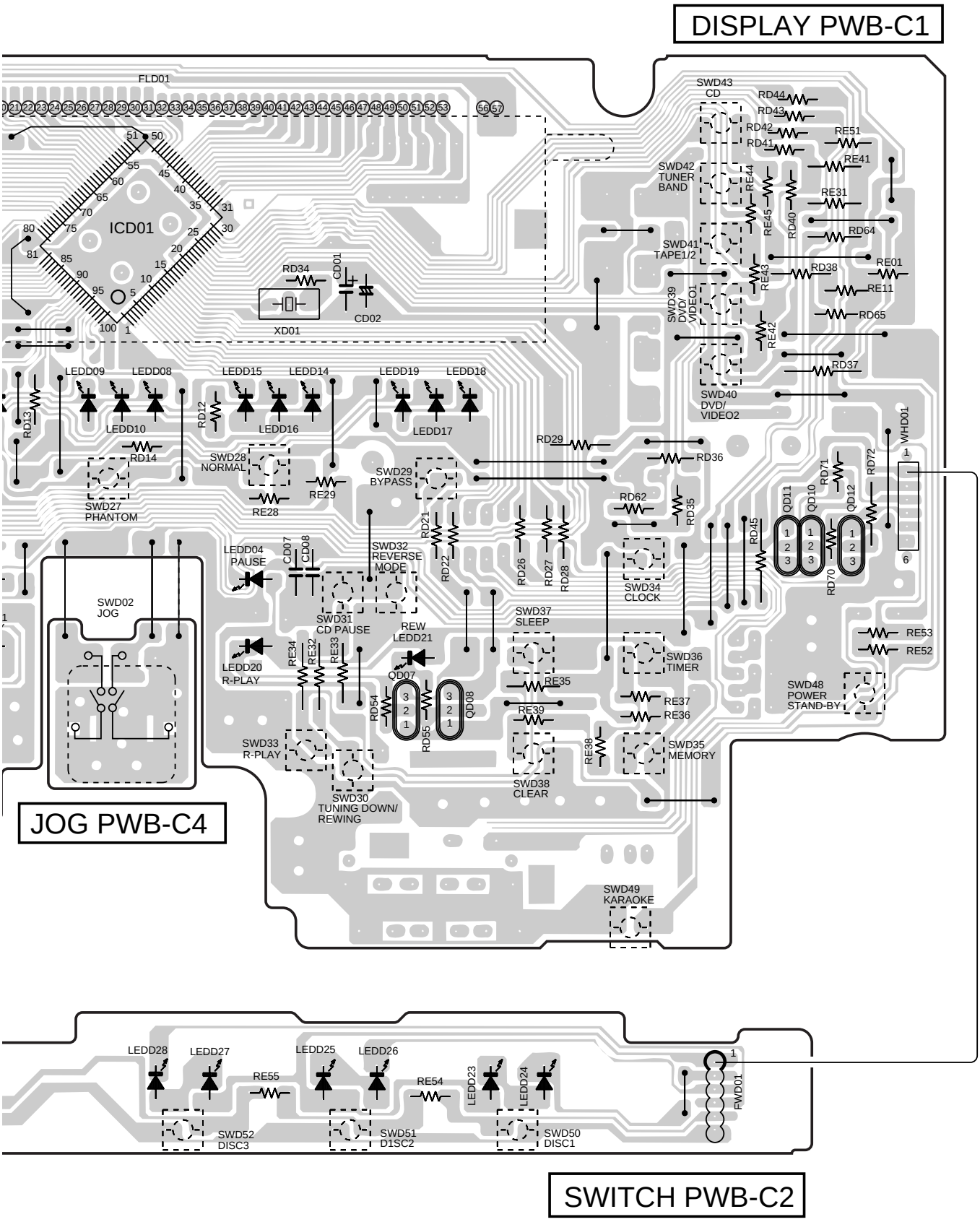


Figure 44 WIRING SIDE OF P.W.BOARD (3/10)



7	8	9	10	11	12

Figure 45 WIRING SIDE OF P.W.BOARD (4/10)

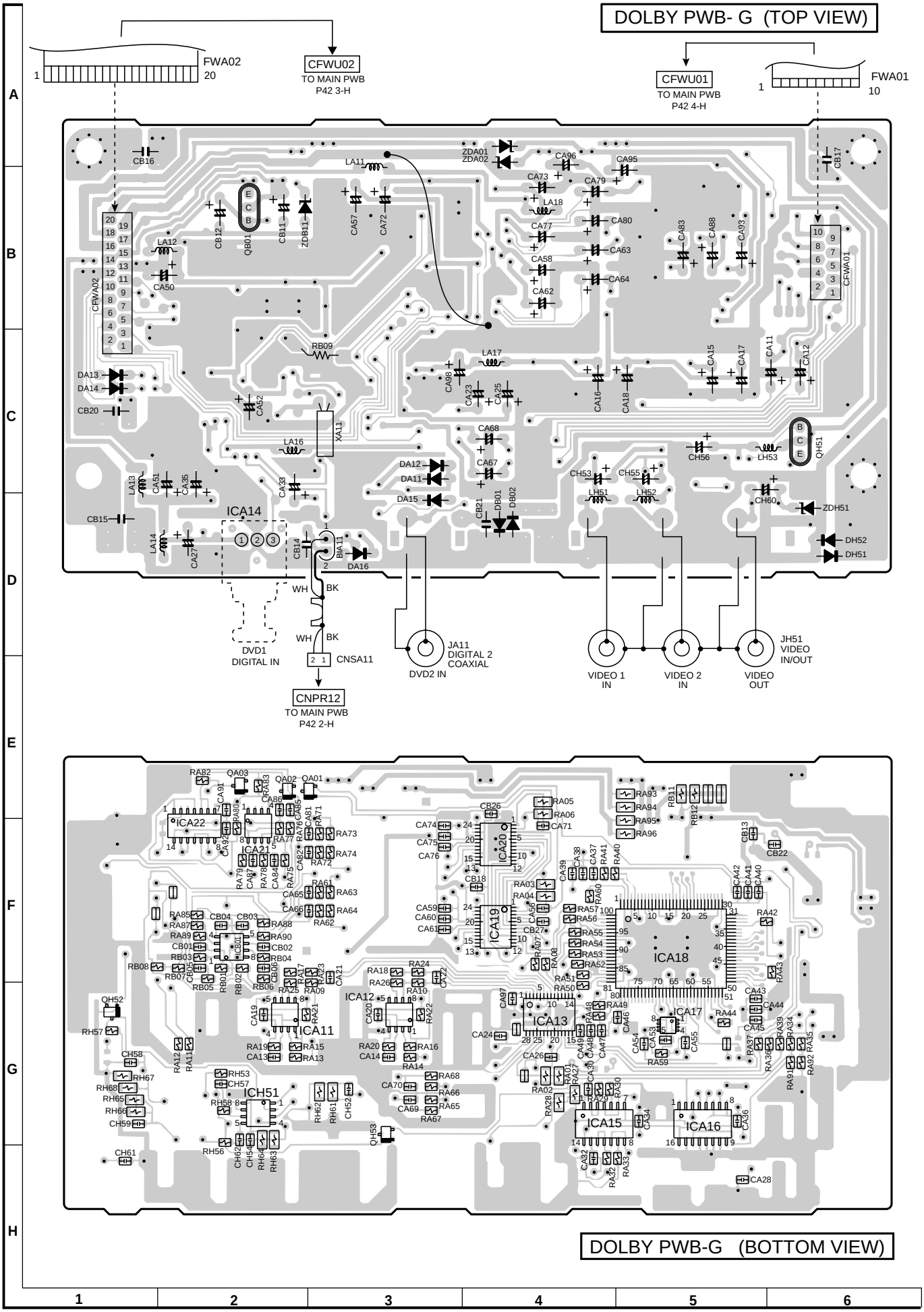
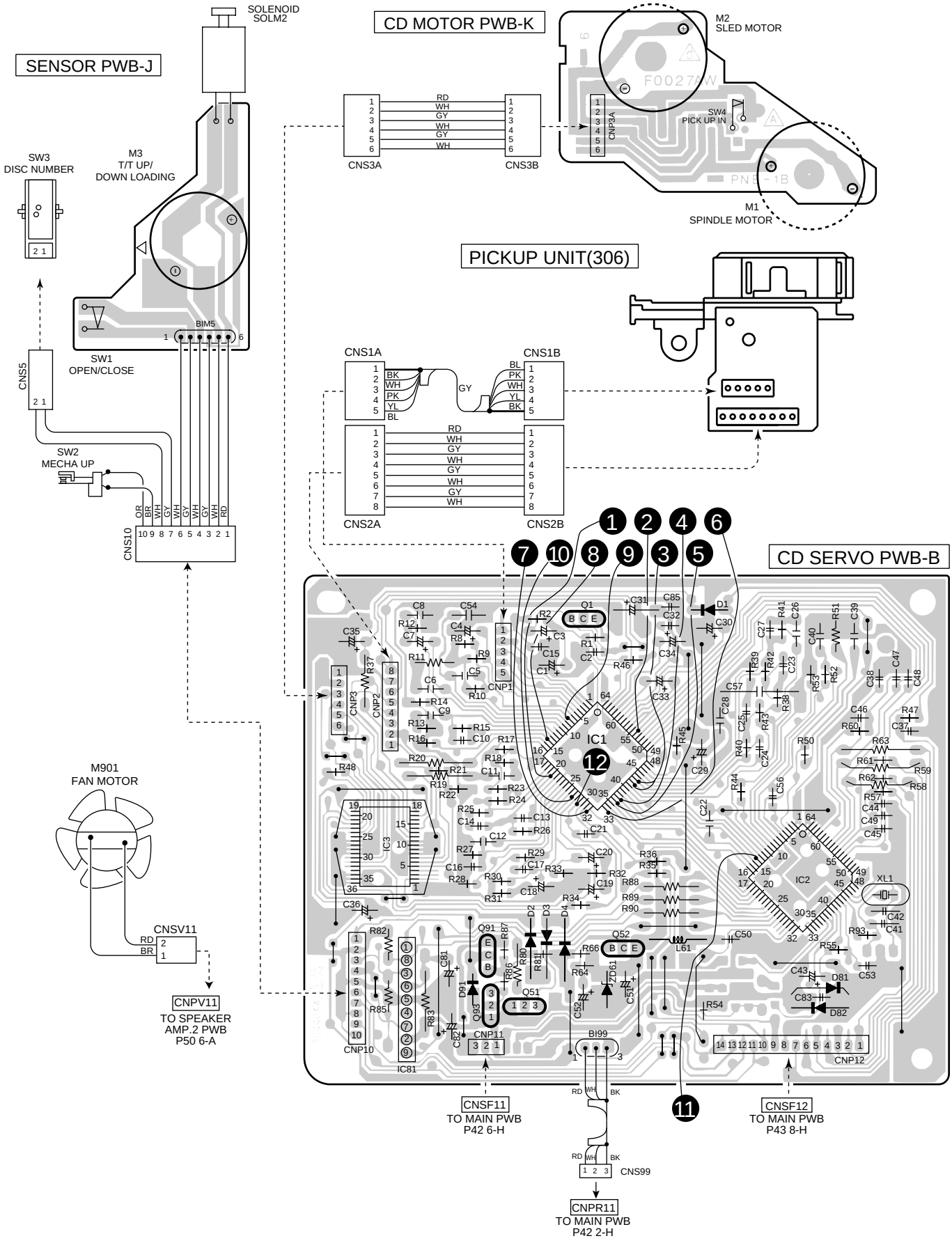


Figure 46 WIRING SIDE OF P.W.BOARD (5/10)



• The numbers ❶ to ⓬ are waveform numbers shown in page 52.

7	8	9	10	11	12

Figure 47 WIRING SIDE OF P.W.BOARD (6/10)

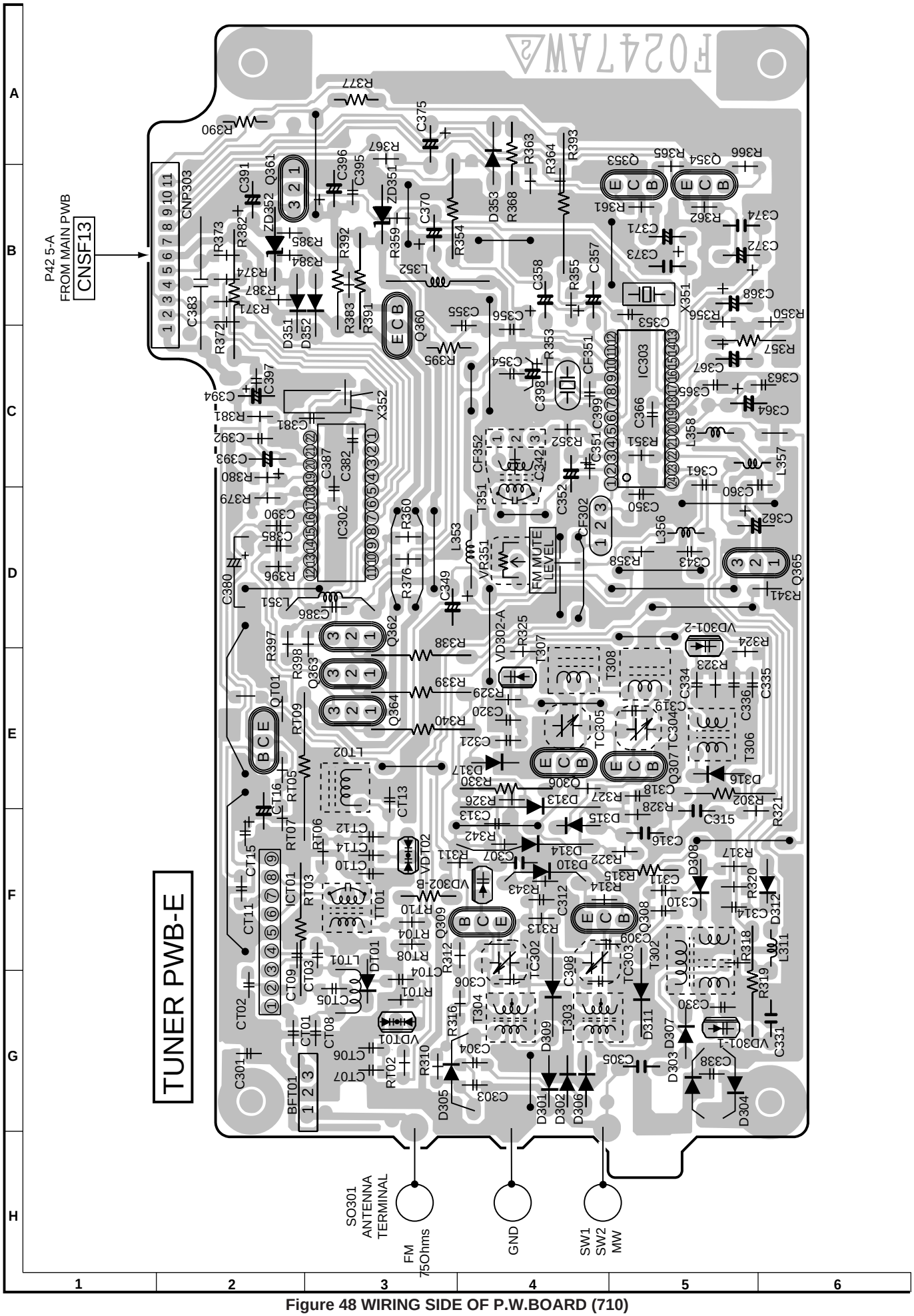
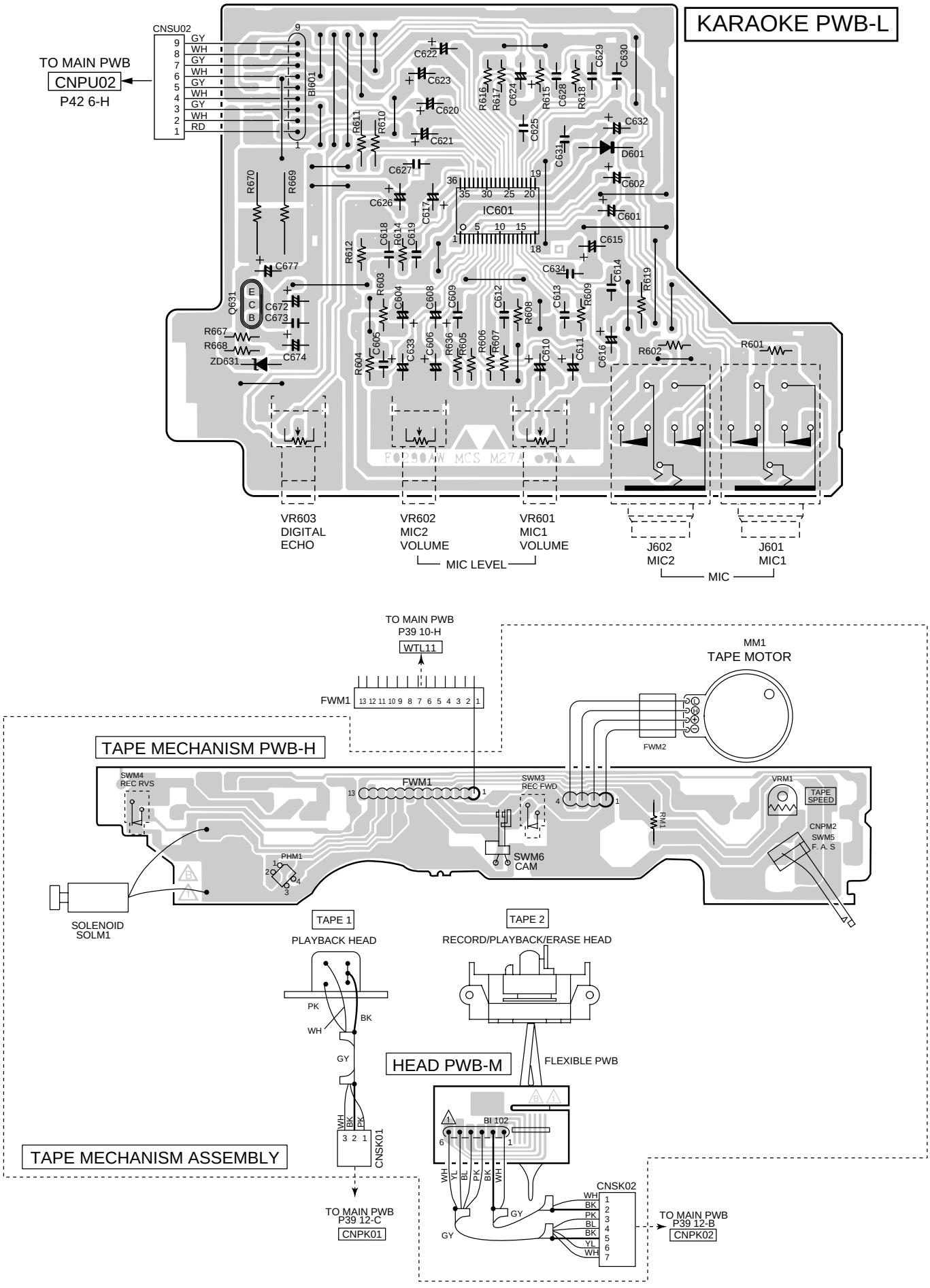


Figure 48 WIRING SIDE OF P.W.BOARD (710)



7	8	9	10	11	12

Figure 49 WIRING SIDE OF P.W.BOARD (8/10)

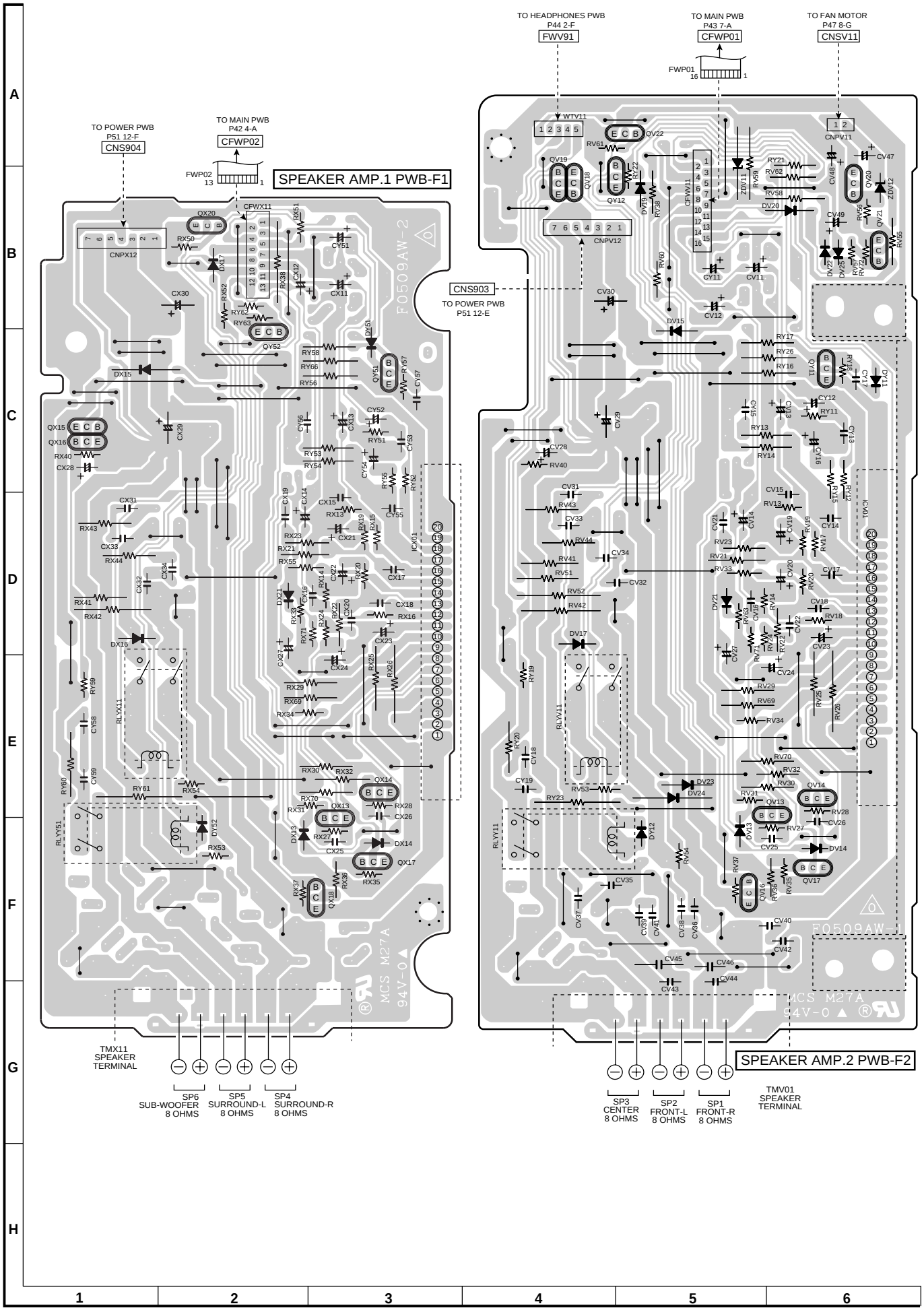
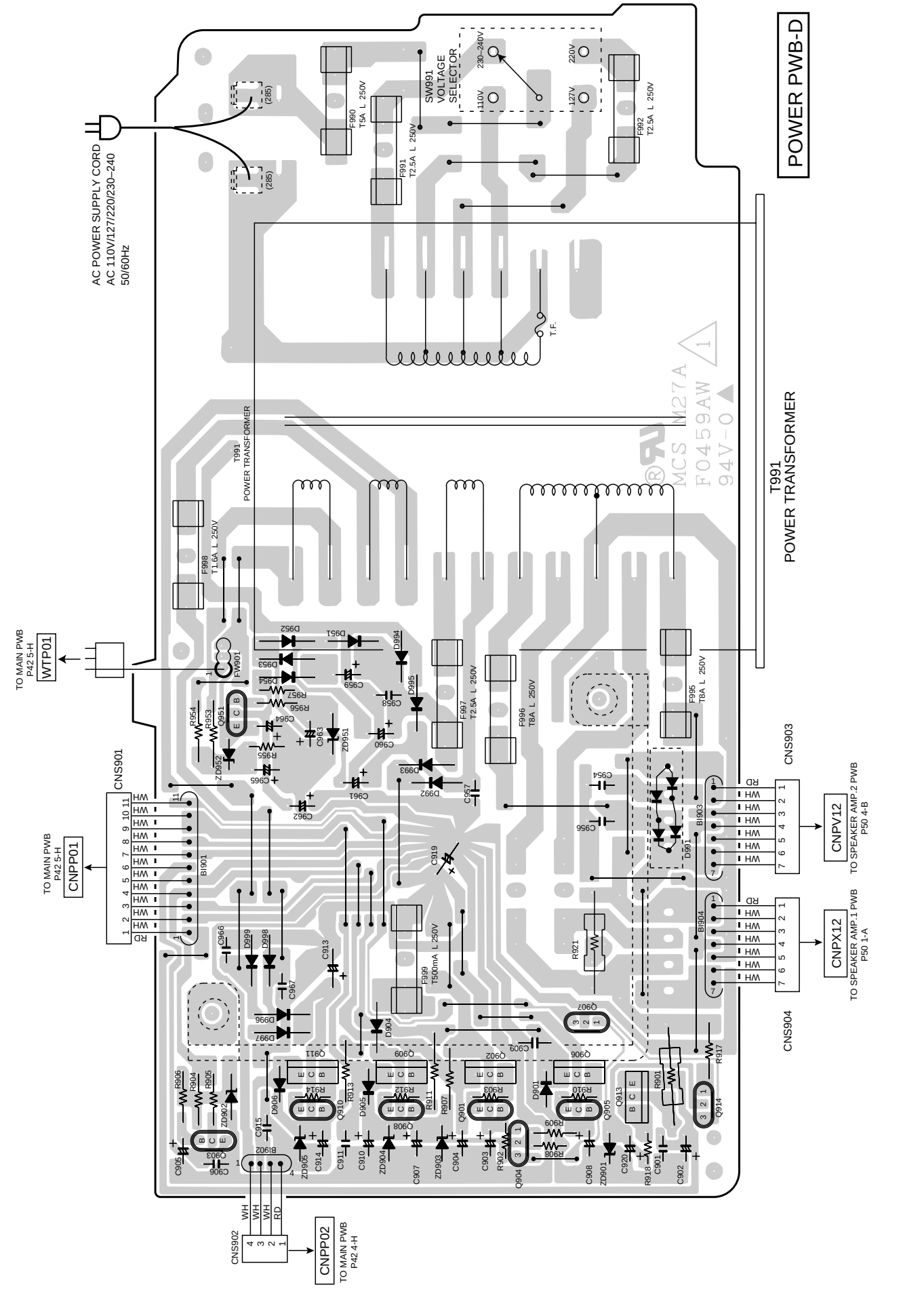


Figure 50 WIRING SIDE OF P.W.BOARD (9/10)



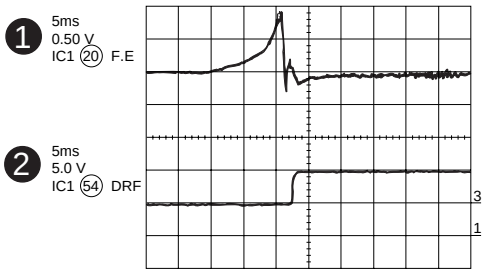
7	8	9	10	11	12

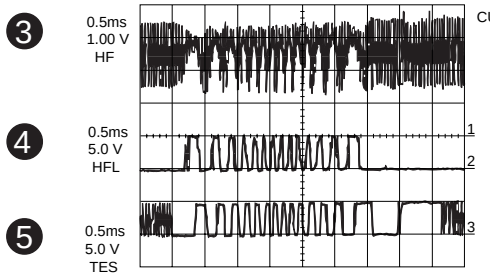
Figure 51 WIRING SIDE OF P.W.BOARD (10/10)

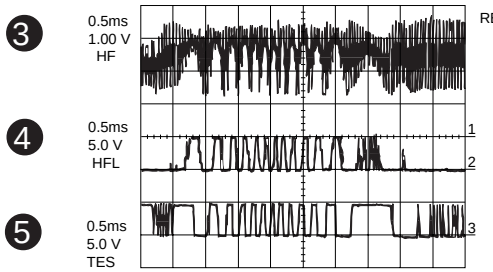
WAVEFORMS OF CD CIRCUIT

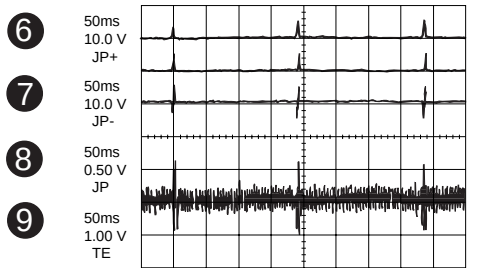
STOP → PLAY

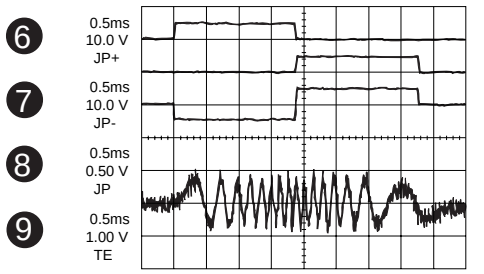
FOCUS — SERCH

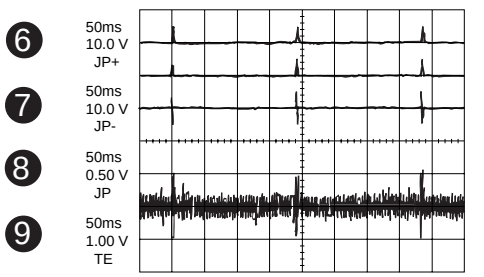


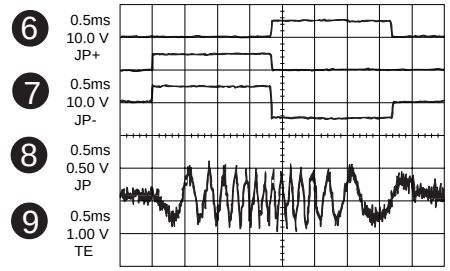








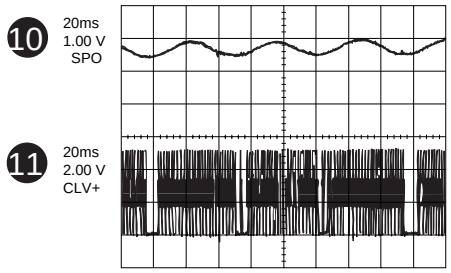




PLAY

NORMAL DISC

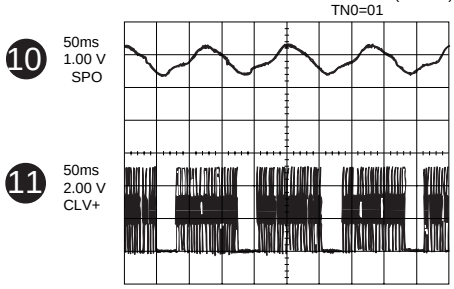
TN0=01



PLAY

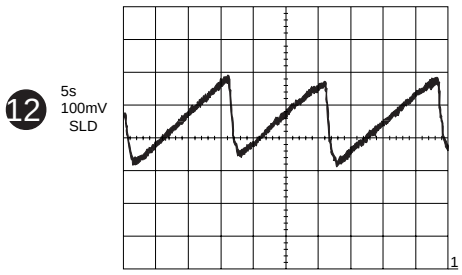
TCD-712 (140mm)

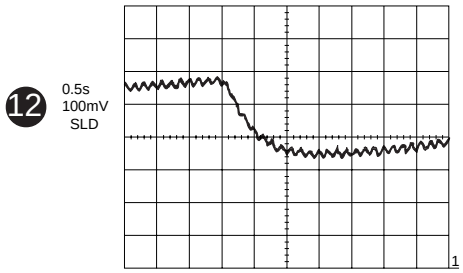
TN0=01



PLAY

TCD-712





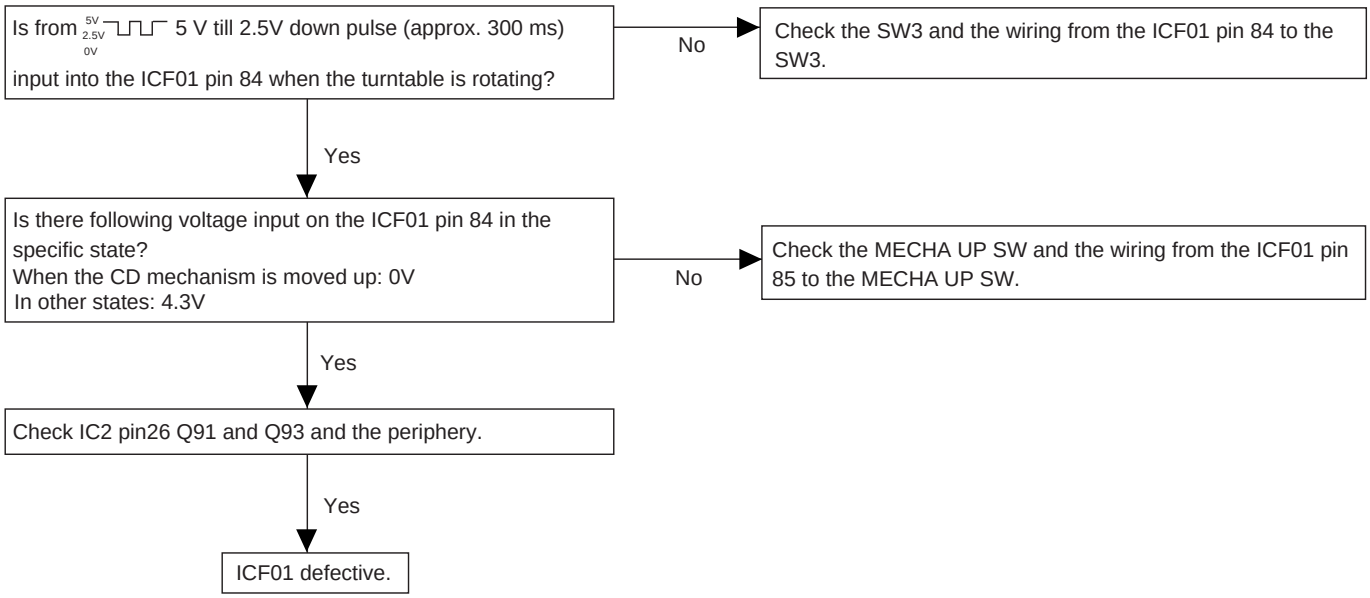
TROUBLESHOOTING

When the CD does not function

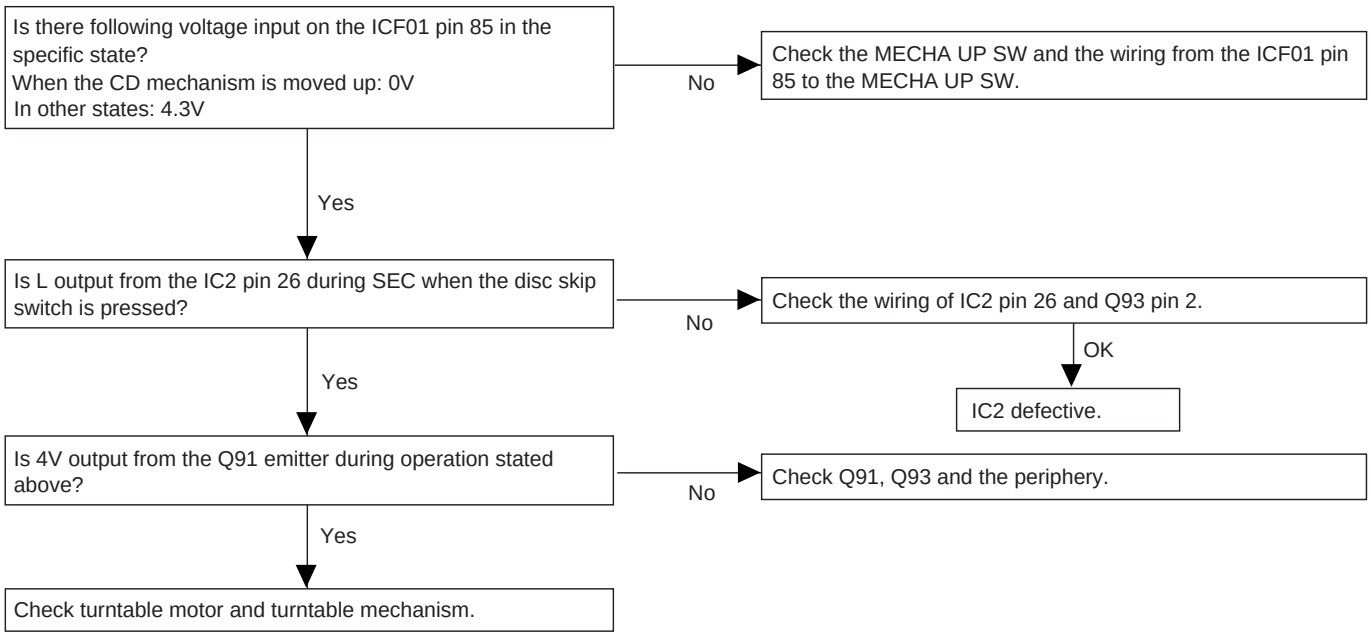
When the CD section does not operate When the objective lens of the optical pickup is dirty,this section may not operate.Clean the objective lens,and check the playback operation.When this section does not operate even after the above step is taken,check the following items.
Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC(Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

• When the turntable fails to stop.


Is from 5V 2.5V 0V 5 V till 2.5V down pulse (approx. 300 ms) input into the ICF01 pin 84 when the turntable is rotating?
No
Check the SW3 and the wiring from the ICF01 pin 84 to the SW3.
Yes
Is there following voltage input on the ICF01 pin 84 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the ICF01 pin 85 to the MECHA UP SW.
Yes
Check IC2 pin26 Q91 and Q93 and the periphery.
Yes
ICF01 defective.

• When turntable fails to move.


Is there following voltage input on the ICF01 pin 85 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the ICF01 pin 85 to the MECHA UP SW.
Yes
Is L output from the IC2 pin 26 during SEC when the disc skip switch is pressed?
No
Check the wiring of IC2 pin 26 and Q93 pin 2.
OK
IC2 defective.
Yes
Is 4V output from the Q91 emitter during operation stated above?
No
Check Q91, Q93 and the periphery.
Yes
Check turntable motor and turntable mechanism.

• When the CD tray fails to open or close.

Is there following voltage input in specific state of ICF01 pin 86?
Open state: 0V
Close state: 0V
Intermediate state between open state and close state: 4.3V

No → Check the OPEN CLOSE SW and the wiring from the ICF01 pin 86 to the OPEN CLOSE SW.

Yes ↓

Is H output to IC2 pin 24 or 25 for 7 seconds when the OPEN/CLOSE key is pressed?IC81 is defective. Replace it.

No → Check the wiring of the IC2 pins 24 and 25, IC81 pins 1 and 3.

OK ↓

IC2 defective.

Yes ↓

Is 4V output between IC81 pins 3 and 7 during operation stated above?

No → Check the periphery of IC81.

OK ↓

IC81 defective.

Yes ↓

Check the loading motor (M1) and the loading mechanism.

• The CD function will not work.

The CD operating keys don't work.

Yes ↓

Check the CD, DSP, power supply, and 16.93 MHz clock, and reset terminal.

Yes ↓

Check the waveform of SCK, SO (DATA) and SI (COMM).

Yes ↓

See if the pick-up is the in PICKUP IN SW position.

Yes ↓

If the items mentioned above are OK, check the main microcomputer ICF01.

• The CD operating keys work.

Check the Focus - HF system.

Playback can be performed without a disc.

Yes ↓

Does the pick-up move up and down twice?

Yes → Focus search OK

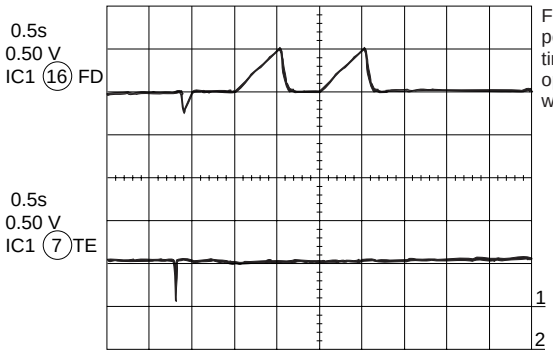
No ↓

Does the output waveform of IC1(16)(FD) match that shown in Fig. 54?

Yes → Check the area around IC3-CNP2.

No ↓

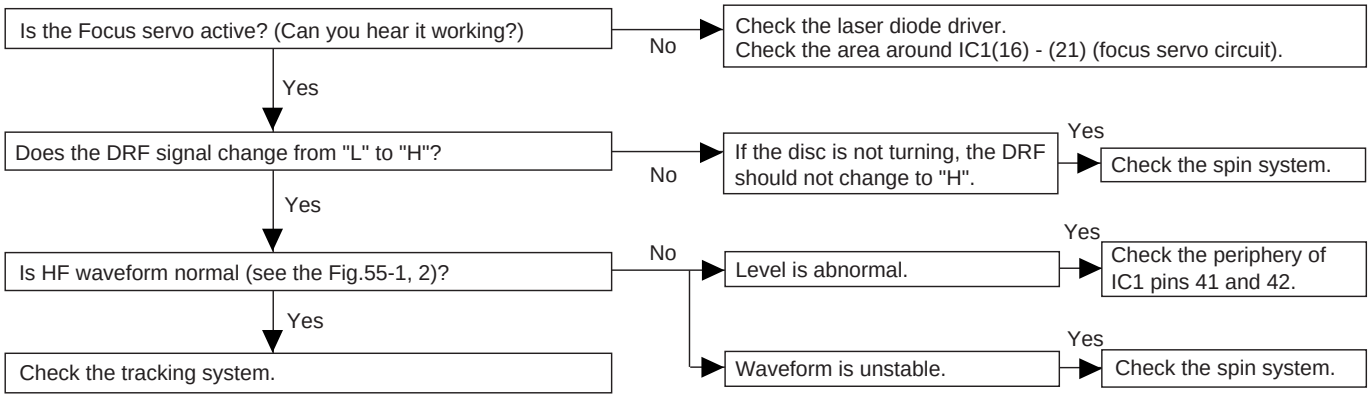
Check the IC1(50)(CLK) line, 4MHz.
Check the microcomputer data on pins (51)(CL), (52)(DAT) and (53)CE.



Focus search is performed two times when play operation is done without disc.

Figure 54

• Playback can only be performed when a disc is loaded.


Is the Focus servo active? (Can you hear it working?)
No
Check the laser diode driver.
Check the area around IC1(16) - (21) (focus servo circuit).
Yes
Does the DRF signal change from "L" to "H"?
No
If the disc is not turning, the DRF should not change to "H".
Yes
Check the spin system.
Yes
Is HF waveform normal (see the Fig.55-1, 2)?
No
Level is abnormal.
Yes
Check the periphery of IC1 pins 41 and 42.
Yes
Waveform is unstable.
Yes
Check the spin system.
Check the tracking system.

HF
1.0V/DIV
0.5µsec/DIV(DC)
(When playing back the disc)

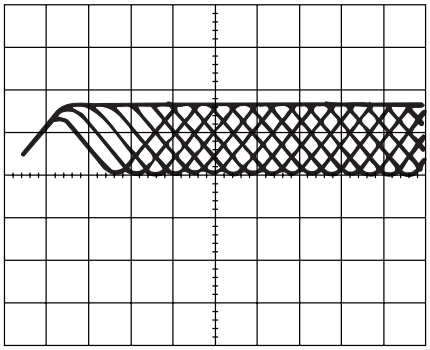
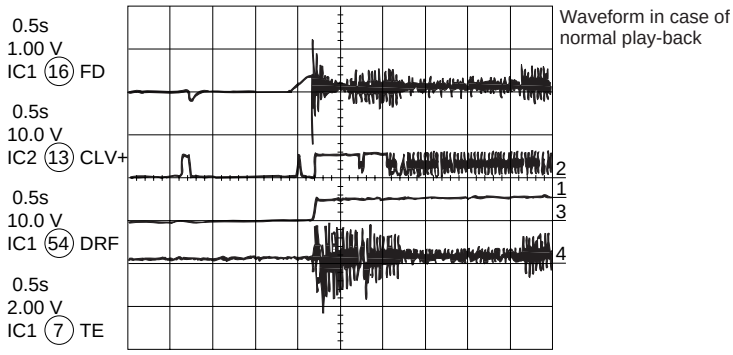


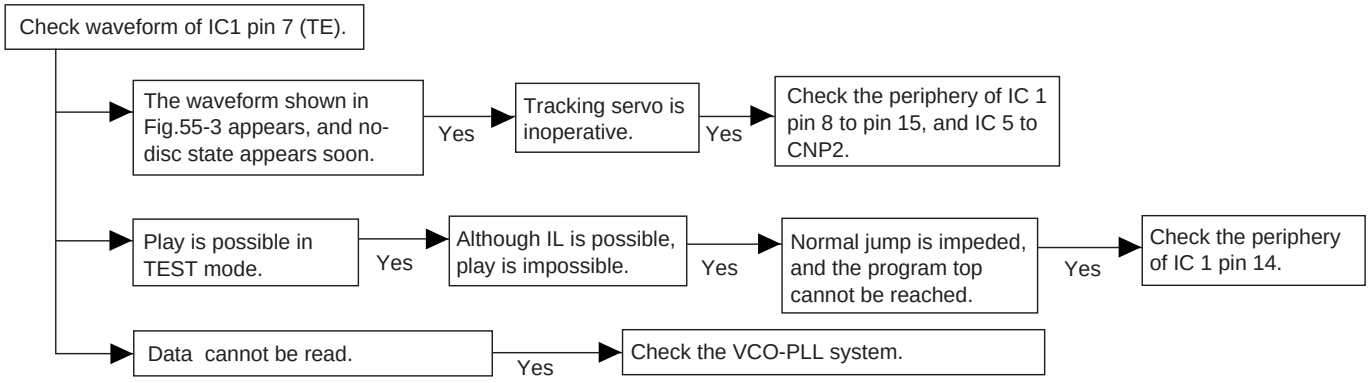
Figure 55-1



Waveform in case of normal play-back

Figure 55-2

• Check the tracking system.


Check waveform of IC1 pin 7 (TE).
The waveform shown in Fig.55-3 appears, and no-disc state appears soon.
Yes
Tracking servo is inoperative.
Yes
Check the periphery of IC 1 pin 8 to pin 15, and IC 5 to CNP2.
Play is possible in TEST mode.
Yes
Although IL is possible, play is impossible.
Yes
Normal jump is impeded, and the program top cannot be reached.
Yes
Check the periphery of IC 1 pin 14.
Data cannot be read.
Yes
Check the VCO-PLL system.

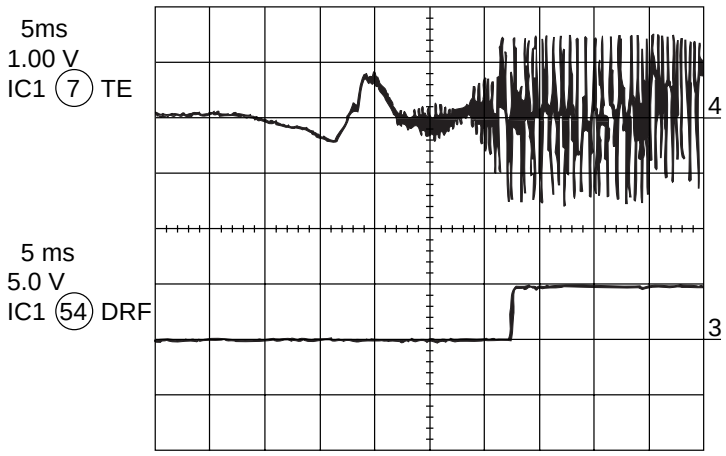


Figure 55-3

• Checking the spin system.

Play operation is performed without disc.

Yes

The turntable rotates a little. — Yes → The spin driver circuit is normal.

No

The turntable fails to rotate or rotates at high speed. — Yes → Check the periphery of IC1 pins 23 to 27, pin 39, and pin 40, IC2 pin 12 and pin 13, IC5 to CNP3.

• Checking the VCO-PLL system

Play operation is performed when disc exits.

Yes

Although HF waveform is normal, TOC data cannot be read. — Yes → Check PDO waveform (Fig. 56).

Abnormal

Check the IC1 pins 43 and 44, IC2 pins 3, 5, 7, 10, and 11.

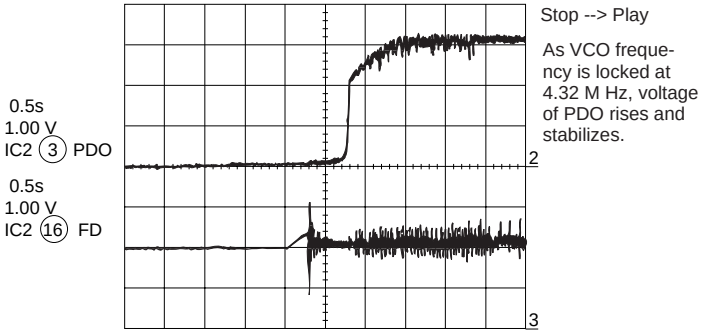


Figure 56

• Although HF waveform is normal and the time indication is normal, no sound is emitted.

Check IC 2 pin 48 (EFLG). — No → Usually, the number of pulses of flawless disc is 100 pulses/sec or less.

Yes

Check IC2 pins 37, 40.

Abnomal

Check IC 401 and POWER AMP IC 801.

FUNCTION TABLE OF IC

IC2 VHiLC78622K-1: Servo/Signal Control (LC78622K) (1/2)

Pin No.	Terminal Name	Input/Output	Function		
1	DEFI	Input	Input terminal of defect detection signal (DEF). (Connected to OV when not used.)		
2	TAI	Input	For PLL	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.	
3	PDO	Output		Output terminal of phase comparison for external VCO control.	
4	VVSS	—		Ground terminal for integrated VCO. Surely connected to 0V.	
5	ISET	Input		Resistance connection terminal for current adjustment of PDO output.	
6	VVDD	—		Power terminal for integrated VCO.	
7	FR	Input		VCO frequency range adjustment.	
8	VSS	—	Ground terminal of digital system. Surely connected to 0V.		
9	EFMO	Output	For slice level control	EFM signal output terminal.	
10	EFMIN	Input		EFM signal input terminal.	
11	TEST2	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.		
12	CLV+	Outout	Output for disk motor control. 3 values can be output with the commands.		
13	CLV-	Output	Output for disk motor control. 3 values can be output with the commands.		
14	V/P	Output	Monitor output terminal for automatic switch of rough servo/phase control. "H" for rough servo, and "L" for phase servo.		
15	HLF	Intput	Input terminal of track detection signal. Schmit input.		
16	TES	Input	Input terminal of tracking error signal. Schmit input.		
17	TOFF	Output	Tracking OFF output terminal.		
18	TGL	Output	Output terminal for switch of tracking gain "L" increases the gain.		
19	JP+	Output	Output for track jump control. 3 values can be output with the commands.		
20	JP-	Output	Output for track jump control. 3 values can be output with the commands.		
21*	PCK	Output	Clock monitor terminal for EFM data replay. 4,3218MHz as the phase clock.		
22*	FSEQ	Output	Output terminal synchronous signal detection. "H" is output when synchronous signal detected by EFM signal matches synchronous signal internally generated.		
23	VDD	—	Power terminal of digital system.		
24	CONT1	Input/Output	General purpose input/output terminal 1	Controlled with serial data command from micro computer. When not used, set it as the input terminal and open it by connecting to 0V, or set it as the output terminal and open it.	
25	CONT2	Input/Output	General purpose input/output terminal 2		
26	CONT3	Input/Output	General purpose input/output terminal 3		
27	CONT4	Input/Output	General purpose input/output terminal 4		
28*	CONT5	Input/Output	General purpose input/output terminal 5		
29*	EMPH	Output	Difference monitor terminal At "H", deemphasis disk is being replayed.		
30*	C2F	Output	C2 flag output terminal.		
31	DOUT	Output	Output terminal of digital OUTPUT. (EIAJ format)		
32*	TEST3	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.		
33	TEST4	Input	Input terminal for test. Pull-down resistor is integrated. Surely connected to 0V.		
34	N.C.	—	Terminal not used. Open during operation.		
35*	MUTEL	Output	L channel 1 bit DAC	Mute output terminal for L channel.	
36	LVDD	—		Power terminal for L channel.	
37*	LCHO	Output		L channel output terminal.	
38	LVSS	—		Ground terminal for L channel Surely connected to 0V.	
39	RVSS	—	R channel 1 bit DAC	Ground terminal for R channel Surely connected to 0V.	
40*	RCH0	Output		R channel output terminal.	
41	RVDD	—		Power terminal for R channel.	
42*	MUTER	Output		Mute output terminal for R channel.	
43	XVDD	—	Power terminal for quartz oscillation.		
44	XOUT	Output	Ground terminal of 16.9344 MHz quartz oscillator.		
45	XIN	Input	Ground terminal of 16.9344 MHz quartz oscillator.		
46	XVSS	—	Ground terminal for quartz oscillation. Surely connected to 0V.		
47*	SBSY	Output	Output terminal of synchronous signal of subcode block.		
48*	EFLG	Output	Correction monitor terminal of C1, C2, single and double.		

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC2 VHiLC78622K-1: Servo/Signal Control (LC78622K) (2/2)

Pin No.	Terminal Name	Input/Output	Function
49*	PW	Output	Output terminal of subcodes P, A, R, S, T, U and W.
50*	SFSY	Output	Output terminal of synchronous signal of subcode frame. It drops when subcode stands by.
51	SBCK	Input	Clock input terminal to read subcode. Schmit input (Connected to 0V when not used.)
52*	FSX	Output	Output terminal of synchronous signal of 7.35kHz divided from quartz oscillation.
53	WRQ	Output	Output terminal to stand by output of subcode Q.
54	RWC	Input	Input terminal of read/write. Schmit input.
55	SQOUT	Output	Output terminal of subcode Q.
56	COIN	Input	Command input terminal from microcomputer.
57	$\overline{CQCK}$	Input	Clock input terminal to fetch command input, or pick up subcode from SQOUT. Schmit input
58	$\overline{RES}$	Input	Reset input terminal of LC78622. When turning on power, set it at "L".
59*	TEST11	Output	Output terminal for test. Used in the open state ("L" output as ordinary).
60*	16M	Output	Output terminal of 16.9344Hz.
61	4.2M	Output	Output terminal of 4.2336MHz.
62	TEST5	Input	Input terminal for test Pull-down resistor is integrated. Surely connected to 0V.
63	$\overline{CS}$	Input	Chip selection input terminal. Pull-down resistor is integrated. Connected to 0when not controlled.
64	TEST1	Input	Input terminal for test Pull-down resistor is integrated. Surely connected to 0V.

Note: The same potential must be supplied to the power terminals (VDD, VVDD, LVDD, RVDD, XVDD).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

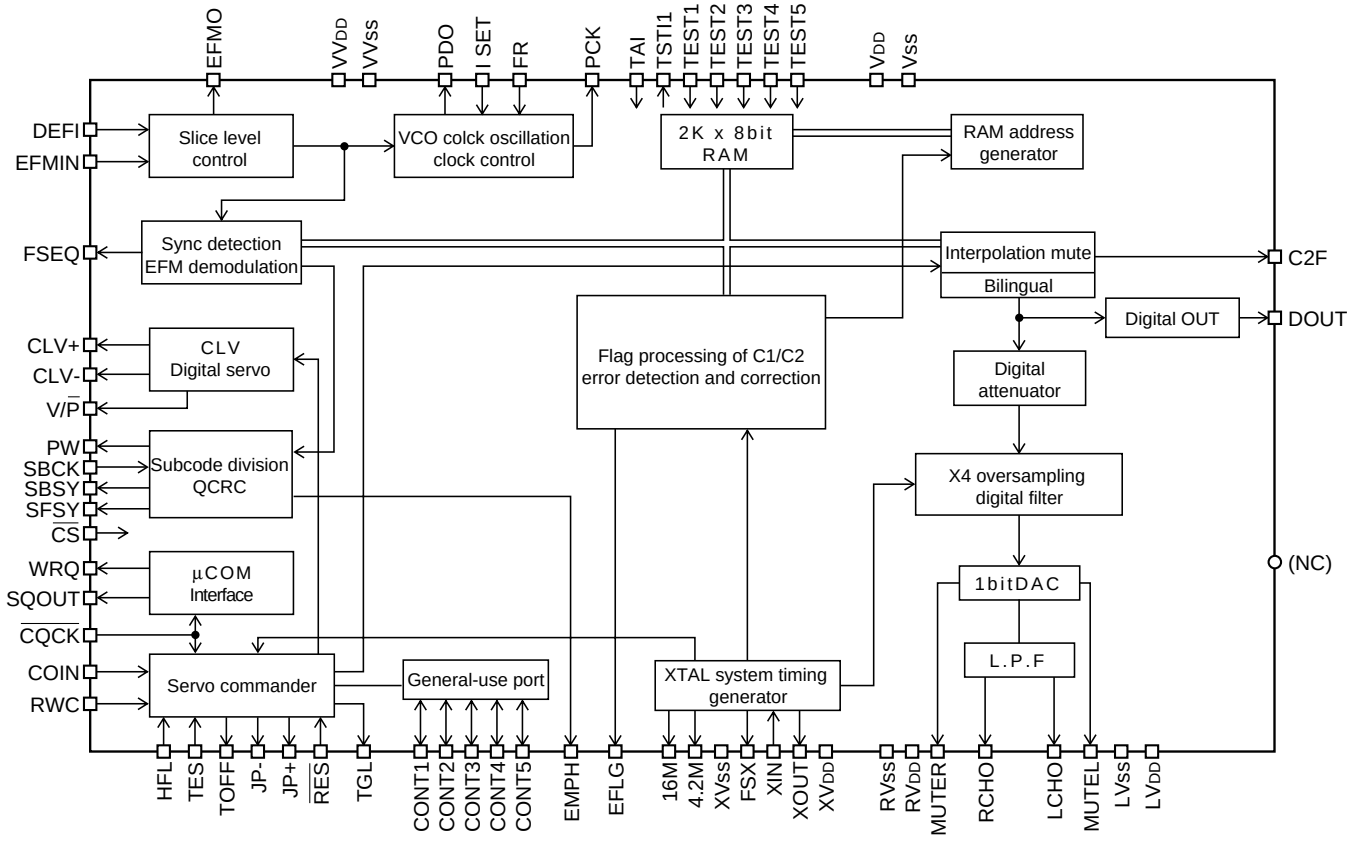


Figure 58 BLOCK DIAGRAM OF IC

IC1 VHiLA9241M/-1: Servo Amp. (LA9241M) (1/2)

Pin No.	Port Name	Function
1	FIN2	Connection pin for photodiode of pickup. RF signal is generated through addition with FIN pin, and FE signal is generated through subtraction.
2	FIN1	Connection pin for photodiode of pickup.
3	E	Connection pin for photodiode of pickup. TE signal is generated through subtraction with F pin.
4	F	Connection pin for photodiode of pickup.
5	TB	Pin for input of DC component of TE signal.
6	TE-	Pin to connect gain setting resistor of TE signal to TE signal.
7	TE	TE signal output pin.
8	TESI	TES (Track error sense) comparator input pin. TE signal is band-passed and input.
9	SCI	Input pin for shock detection.
10	TH	Pin to set time constant of tracking gain.
11*	TA	TA amplifier output pin.
12	TD-	Pin to compose tracking phase compensation constant between TD and VR pins.
13	TD	Pin to set tracking phase compensation.
14	JP	Pin to set amplitude of tracking jump signal (kick pulse).
15	TO	Tracking control signal output pin.
16	FD	Focusing control signal output pin.
17	FD-	Pin to compose focusing phase compensation constant between FD and FA pins.
18	FA	Pin to compose focusing phase compensation constant between FD-/FA-pins.
19	FA-	Pin to compose focusing phase compensation constant between FA and FE pins.
20	FE	Output pin of FE signal.
21	FE-	Pin to connect gain setting resistor of FE signal across TE pin.
22	AGND	GND for analog signal.
23	NC	No connect.
24	SPI	Spindle amplifier input.
25	SPG	Pin to connect gain setting resistor in the 12cm mode of spindle.
26	SP-	Pin to connect spindle phase compensation constant together with SPD pin.
27	SPD	Spindle control signal output pin.
28	SLEQ	Pin to connect thread phase compensation constant.
29	SLD	Thread control signal output pin.
30	SL-	Input pin of thread feed signal from micro computer.
31	SL+	Input pin of thread feed signal from micro computer.
32	JP-	Input pin of tracking jump signal from DSP.
33	JP+	Input pin of tracking jump signal from DSP.
34	TGL	Input pin of tracking gain control signal from DSP. TGL = Gain low at "H"
35	TOFF	Input pin of tracking off control signal from DSP. TOFF = Off at "H"
36	TES	Output pin of TES signal to DSP.
37	HFL	(HIGH FREQUENCY LEVEL) is used to judge whether main beam is positioned on the bit or on the mirror.
38	SLOF	Thread servo off control input pin.
39	CV-	Pin to input CLV error signal from DSP.
40	CV+	Pin to input CLV error signal from DSP.
41	RFSM	RF output pin.
42	RFS-	Pin to set gain of RF and set 3T compensation constant together with RFSM pin.
43	SLC	(SLICE LEVEL CONTROL) is the output pin to control of the level of the data slice with RF waveform DSP.
44	SLI	Input pin to control the level of data slice with DSP.
45	DGND	GND pin in the digital system.
46	FSC	Output pin for focus search smoothening capacitor.
47	TBC	(Tracking Balance Control) Pin to set EF balance variable range.
48*	NC	No connect.
49	DEF	Defect detection output pin of disk.
50	CLK	Reference clock input pin. 4.23MHz of DSP is input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHiLA9241M/-1: Servo Amp. (LA9241M) (2/2)

Pin No.	Port Name	Function
51	CL	Micro computer command clock input pin.
52	DAT	Micro computer command data input pin.
53	CE	Micro computer command chip enable input pin.
54	DRF	(DETECT RF) RF level detection output.
55	FSS	(Focus Serch Select) Pin to switch focus search mode. (± search/+ search for reference voltage)
56	VCC2	VCC pin for servo system and digital system.
57	REFI	Pin to connect pass control for reference voltage.
58	VR	Reference voltage output pin.
59	LF2	Pin to set defect detection time constant of disk.
60	PH1	Pin to connect capacitor for peak hold of RF signal.
61	BH1	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	APC circuit output pin.
63	LDS	APC circuit output pin.
64	VCC1	RF system VCC pin.

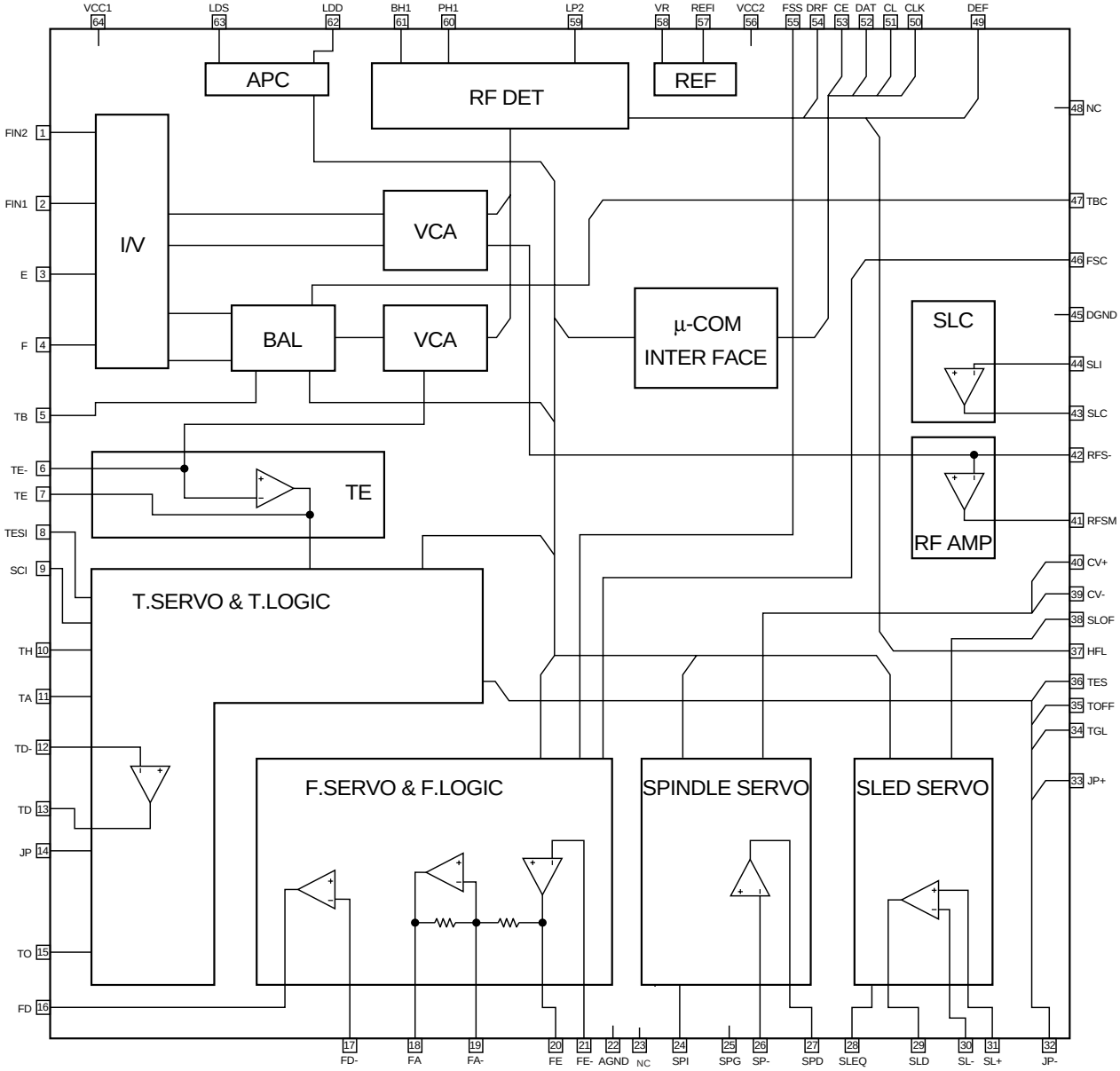


Figure 60 BLOCK DIAGRAM OF IC

ICQ01 VHiQS7777PF-1: Q-Sound Decorder (QS7777PF)

Pin No.	Terminal Name	Input/Output	Function
1	VREFOUT	Output	Buffered reference voltage output (VANA/2)
2	VREFIN	Input	Reference voltage input (Biased to VANA/2 internally)
3	MSC3	Input	Capactior
4	MSC2	Input	Capactior
5	MSC1	Input	Capactior
6	GND	—	Ground
7	PSAVE	Input	Power save control (H: power save on, L: power save off)
8	MUTE	Input	Output mute control (H: mute on, L: mute off)
9	SPREAD	Input	Enhancement control (H: spread maximum, L: mute off)
10	AC	Input	Center speaker control (H: actual center, L: virtual center)
11	AR	Input	Rear speaker control (H: actual rear, L: virtual rear)
12	MO	Input	Monaural to virtual stereo control (H: on, L: off)
13	BYP	Input	Bypass control (H: Bypass On, L: Qsurround process On)
14	P/S	Input	Interface mode control (H: parallel I/O, L: serial I/O)
15	VDIG	—	Digital power supply
16	RROUT	Output	Rear right speaker signal out
17	RLOUT	Output	Rear left speaker signal out
18	COUT	Output	Center speaker signal out
19	FROUT	Output	Front right speaker out
20	FLOUT	Output	Front left speaker output
21	QXAC1	Input	Capactior
22	QXAC2	Input	Capactior
23	QXAC3	Input	Capactior
24	QXAC4	Input	Capactior
25	QXAC5	Input	Capactior
26	QXBC1	Input	Capactior
27	QXBC2	Input	Capactior
28	QXBC3	Input	Capactior
29	QXBC4	Input	Capactior
30	QXBC5	Input	Capactior
31	VANA	—	Analog power supply
32	QXCC1	Input	Capactior
33	QXCC2	Input	Capactior
34	QXCC3	Input	Capactior
35	QXCC4	Input	Capactior
36	QXDC1	Input	Capactior
37	QXDC2	Input	Capactior
38	QXDC3	Input	Capactior
39	QXDC4	Input	Capactior
40	FLIN	Input	Front left signal input
41	FRIN	Input	Front right signal input
42	CIN	Input	Center signal input
43*	SUBIN	Input	Sub Woofer signal input
44	RLIN	Input	Rear left signal input
45	RRIN	Input	Rear right signal input
46	MSC4	Input	Capactior
47	MSC5	Input	Capactior
48	MSC6	Input	Capactior

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

CD-K491W

ICF01 RH-iX0254AWZZ:System Microcomputer (IX0254AW)

Pin No.	Port Name	Input/Output	Function
1,2	P00-P01	Input/Output	8-Bit input/output port. Input/output can be specified in 4-bit units HOLD release input. Port 0 interrupt input
3-10	P10-P17	Input/Output	8-Bit input/output port. Input/output can be specified in 1-bit units Dual-purpose function P10: SIO0 data output P11: SIO0 data input input/bus input/output P12: SIO0 clock input/output P13: SIO1 data output P14: SIO1 data input input/bus input/output P15: SIO1 clock input/output P16: BUZ output P17: Timer 1 output (PWM output)
11	P70	Input/Output	6-Bit input port. Dual-purpose function P70: INT0 input/HOLD release input/Nch-Tr. Output for watchdog timer
12	$\overline{RES}$	Input	Reset terminal
13	XT1/$\overline{P74}$	Input	Input terminal for 32.768 KHz crystal oscillator Connected to VDD when not used Dual-purpose function General-purpose input port $\overline{P74}$
14	XT2/P75	Output	Output terminal for 32.768 KHz crystal oscillator Open when not use Dual-purpose function General-purpose input port P75
15	VSS1	—	Negative power terninal
16	CF1	Input	Intput terminal for ceramic oscillator
17	CF2	Output	Output terminal for ceramic oscillator
18	VDD1	—	Positive power terninal
19-26	P80-P87	Input	8-Bit input port. Dual-purpose function AD input port (8 pcs.)
27-29	P71-73	Input	6-Bit input port. Dual-purpose function P71: INT1 input/HOLD release input P72: INT2 input/timer 0 event input P73: INT3 input (input with noise filter)/ timer 0 event input
30-37	S0/PA0- S7/PA7	Input/Output	Segment output terminal for LCD display Usable as general-purpose input/output port (PA)
38-45	S8/PB0- S15PB7	Input/OUtput	Segment output terminal for LCD display Usable as general-purpose input/output port (PB)
46-53	S16/PC0- S23/PC7	Input/Output	Segment output terminal for LCD display Usable as general-purpose input/output port (PC)
54,55	S24/PD0- S25/PD1	Input/Output	Segment output terminal for LCD display Usable as general-purpose input/output port (PD)
56	VDD2	—	Positive power terninal
57	VSS2	—	Negative power terninal
58-63	S26/PD2- S31/PD7	Input/Output	Segment output terminal for LCD display Usable as general-purpose input/output port (PD)
64-71	S32/PE0- S39/PE7	Input/Output	Segment output terminal for LCD display Usable as general-purpose input/output port (PE)
72-79 (72*)	S40/PF0- S47/PF7	Input/Output	Segment output terminal for LCD display Usable as general-purpose input/output port (PF)
80-82	V1/PL4- V3/PL6	Input	Bias power terminal for LCD drive Usable as general-purpose input/output port (PL)
83-86	COM0/PL0- COM3/PL3	Input/Output	Common output terminal for LCD display Usable as general-purpose input/output port (PL)
87,88	P30-P31	Input/Output	6-Bit input/output port. Input/output can be specified in 1-bit units
89	VSS3	—	Negative power terninal
90	VDD3	—	Positive power terninal
91-94	P32-P35	Input/Output	6-Bit input/output port. Input/output can be specified in 1-bit units
95-100	P02-P07	Input/Output	8-Bit input/output port. Input/output can be specified in 4-bit units HOLD release input. Port 0 interrupt input

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICD01 RH-iX0234AWZZ:System Microcomputer (IX0234AW) (1/2)

Pin No.	Port Name	Input/Output	Function
1,2 (2*)	P16-P17	Input/Output	8-Bit input/output port. Input/output can be specified in 1-bit units Dual-purpose function P16: BUZ output P17: Timer 1 output (PWM output)
3-10 (5*-7*)	P30-37	Input/Output	8-Bit input/output port. Input/output can be specified in 1-bit units Dual-purpose function Nchannel open output: 15V withstand rating
11	P70	Input/Output	4-Bit input/output port. Input/output can be specified in 1-bit units. 2-Bit input port. Dual-purpose functio P70: INT0 input/HOLD release input/Nch-Tr. Output for watchdog timer
12	$\overline{RES}$	Input	Reset terminal
13	XT1/$\overline{P74}$	Input	Input terminal for 32.768 KHz crystal oscillator Connected to VDD when not used Dual-purrpose function General-purpose input port $\overline{P74}$
14	XT2/P75	Output	Output terminal for 32.768 KHz crystal oscillator Dual-purrpose function General-purpose input port P75 When not use. (Oscillatication specification) Open. (Port specification) Connect to VDD1.
15	VSS1	—	Negative power terninal
16	CF1	Input	Intput terminal for ceramic oscillator
17	CF2	Output	Output terminal for ceramic oscillator
18	VDD1	—	Positive power terninal
19-22	P80-P83	Input	4-Bit input/output port. Input/output can be specified in 1-bit units. 4-Bit input port. Dual-purrpose function AD input port (8 pcs.)
23-27	P84-P87	Input	4-Bit input/output port. Input/output can be specified in 1-bit units. 4-Bit input port. Dual-purrpose function AD input port (8 pcs.)
27-29	P71-73	Input	4-Bit input/output port. Input/output can be specified in 1-bit units. 4-Bit input port. Dual-purrpose function P71: INT1 input/HOLD release input P72: INT2 input/timer 0 event input P73: INT3 input (input with noise filter)/ timer 0 event input
30-36	S0/T0- S6/T6	Output	Fluorescent charcater display tube (VFD)display controller Segment/timing shared output
37-45	S7/T7- S15/T15	Input/OUtput	Fluorescent charcater display tube (VFD)display controller Segment/timing shared output Pull-down resistance built-in output
46	VDD3	—	Positive power terninal
47-50	S16-S20	Input/Output	Fluorescent charcater display tube (VFD)display controller Segment output Dual-purrpose function S16: High voltage withstand input port PC0 S17: High voltage withstand input port PC1 S18: High voltage withstand input port PC2 S19: High voltage withstand input port PC3 S20: High voltage withstand input port PC4
51	VP	—	Negative power terminal (Independent power supply only for fluorescent character display tube drive output) (Power supply for pull-dowen resistores)
52-63	S21-S31	Input/Output	Fluorescent charcater display tube (VFD)display controller Segment output Dual-purrpose function S21: High voltage withstand input port PC5 S22: High voltage withstand input port PC6 S23: High voltage withstand input port PC7 S24: High voltage withstand input port PD0 S25: High voltage withstand input port PD1 S26: High voltage withstand input port PD2 S27: High voltage withstand input port PD3 S28: High voltage withstand input port PD4 S29: High voltage withstand input port PD5 S30: High voltage withstand input port PD6 S31: High voltage withstand input port PD7

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICD01 RH-iX0234AWZZ:System Microcomputer (IX0234AW) (2/2)

Pin No.	Port Name	Input/Output	Function
64-71	S32-S39	Input/Output	Fluorescent charcater display tube (VFD)display controller Segment output Dual-purrpose function S32: High voltage withstand input port PE0 S33: High voltage withstand input port PE1 S34: High voltage withstand input port PE2 S35: High voltage withstand input port PE3 S36: High voltage withstand input port PE4 S37: High voltage withstand input port PE5 S38: High voltage withstand input port PE6 S39: High voltage withstand input port PE7
72	VDD4	—	Positive power terninal
73-80 (76*-78*)	S40-S47	Input/Output	Fluorescent charcater display tube (VFD)display controller Segment output Dual-purrpose function S40: High voltage withstand input port PF0 S41: High voltage withstand input port PF1 S42: High voltage withstand input port PF2 S43: High voltage withstand input port PF3 S44: High voltage withstand input port PF4 S45: High voltage withstand input port PF5 S46: High voltage withstand input port PF6 S47: High voltage withstand input port PF7
81-84	S48-S51	Input/Output	Fluorescent charcater display tube (VFD)display controller Segment output Dual-purrpose function S48: High voltage withstand input port PG0 S49: High voltage withstand input port PG1 S50: High voltage withstand input port PG2 S51: High voltage withstand input port PG3
85-88	P00-P03	Input/Output	8-Bit input/output port. Input/output can be specified in 4-bit units. HOLD release input. Port 0 interrupt input N channel open output: 15V withstand rating
89	VSS2	—	Negative power terninal
90	VDD2	—	Positive power terninal
91-94	P04-P07	Input/Output	8-Bit input/output port. Input/output can be specified in 4-bit units. HOLD release input. Port 0 interrupt input N channel open output: 15V withstand rating
95-100 (98*-100*)	P10-P17	Input/Output	8-Bit input/output port. Input/output can be specified in 1-bit units Dual-purpose function P10: SIO0 data output P11: SIO0 data input input/bus input/output P12: SIO0 clock input/output P13: SIO1 data output P14: SIO1 data input input/bus input/output P15: SIO1 clock input/output P16: BUZ output P17: Timer 1 output (PWM output)

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICA18 VHiZR38600/-1: DOLBY AC-3/5.1CH MPEG2 AUDIO DECORDER (ZR38600) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1*	A0	Output	Address bus. The address bus is always active.
2	GND	—	Ground pin
3	SS_	Input	Serial host interfase: Slave select input (SPI)
4	TMS	Input	ICE interfase mode selection (TAG)
5	INT_	Input	External interrupt input. The interrupt signal is valid when it is asserted for 2XTI cycles or longer.
6	VCC	—	Used to connect a power supply of +3.3V ±5%
7*	D14/RDY	Input/Output	Data bus
8	GND	—	Ground pin
9*	A1	Output	Address bus. The address bus is always active.
10*	A2	Output	Address bus. The address bus is always active.
11*	A3	Output	Address bus. The address bus is always active.
12	VCC	—	Used to connect a power supply of +3.3V ±5%
13*	D13/C/D_	Input/Output	Data bus
14*	GPIO5	Input/Output	General-purpose I/O pin
15*	D12/ERR	Input/Output	Data bus
16*	A4	Output	Address bus. The address bus is always active.
17	VCC	—	Used to connect a power supply of +3.3V ±5%
18*	GPIO4	Input/Output	General-purpose I/O pin
19	GND	—	Ground pin
20*	A5	Output	Address bus. The address bus is always active.
21*	A6	Output	Address bus. The address bus is always active.
22*	D11/PP7	Input/Output	Data bus
23*	GPIO3	Input/Output	General-purpose I/O pin
24*	A7	Output	Address bus. The address bus is always active.
25*	A8	Output	Address bus. The address bus is always active.
26*	D10/PP6	Input/Output	Data bus
27*	A9	Output	Address bus. The address bus is always active.
28*	A10	Output	Address bus. The address bus is always active.
29	GND	—	Ground pin
30	VCC	—	Used to connect a power supply of +3.3V ±5%
31*	A11	Output	Address bus. The address bus is always active.
32*	D9/PP5	Input/Output	Data bus
33*	D8/PP4	Input/Output	Data bus
34	SO	Output	Serial host interfase: Serialdata output (SPI)
35	VCC	—	Used to connect a power supply of +3.3V ±5%
36	GND	—	Ground pin
37	GND	—	Ground pin
38*	A12	Output	Address bus. The address bus is always active.
39*	TDO	Output	ICE interfase data output (JAG)
40*	A13	Output	Address bus. The address bus is always active.
41*	D7/PP3	Input/Output	Data bus
42*	D6/PP2	Input/Output	Data bus
43*	A14	Output	Address bus. The address bus is always active.
44	GND	—	Ground pin
45	VCC	—	Used to connect a power supply of +3.3V ±5%
46*	A15	Output	Address bus. The address bus is always active.
47*	D5/PP1	Input/Output	Data bus
48	D4/PP0	Input/Output	Data bus
49*	A16	Output	Address bus. The address bus is always active.
50*	RD_	Input/Output	Read strobe
51*	WR_	Input/Output	Write strobe
52*	CS_	Input/Output	Chip select
53	GND	—	Ground pin

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICA18 VHiZR38600/-1: DOLBY AC-3/5.1CH MPEG2 AUDIO DECORDER (ZR38600) (2/2)

Pin No.	Terminal Name	Input/Output	Function
54	SDD	Output	Data output for serial ports B, C and D
55	VCC	—	Used to connect a power supply of +3.3V ±5%
56*	GPIO2	Input/Output	General-purpose I/O pin
57*	GPIO1	Input/Output	General-purpose I/O pin
58*	GPIO0	Input/Output	General-purpose I/O pin
59	VCC	—	Used to connect a power supply of +3.3V ±5%
60	GND	—	Ground pin
61	SPFRX	Input	Digital audio interface input terminal
62	P/M	Input	Parallel port/memory port mode setting pin
63*	XTO	Output	Crystal oscillator input/output terminal
64	XTI	Input	Crystal oscillator input/output terminal
65	GND	—	Ground pin
66	SCKIN	Input/Output	Group B serial port clock input/output.
67	VCC	—	Used to connect a power supply of +3.3V ±5%
68	GNDA	—	Ground pin
69	FLTCAP	Input	Internal PLL circuit terminal for connecting a capacitor
70	VCCA	—	Used to connect a power supply of +3.3V ±5%
71	GND	—	Ground pin
72*	CLKOUT	Output	
73*	D19	Input/Output	Data bus
74*	D18	Input/Output	Data bus
75*	A17	Output	Address bus. The address bus is always active.
76*	A18	Output	Address bus. The address bus is always active.
77*	A19	Output	Address bus. The address bus is always active.
78	GND	—	Ground pin
79	SDC	Output	Data output for serial ports B, C and D
80	SDB	Output	Data output for serial ports B, C and D
81	VCC	—	Used to connect a power supply of +3.3V ±5%
82	RESET	Input	Reset input. Resetting is executed from the specified status and address by the reset signal.
83	SDA	Input	Data input for serial ports A, E and F
84	VCC	—	Used to connect a power supply of +3.3V ±5%
85	SDE	Input	Data input for serial ports A, E and F
86	TCK	Input	ICE interface clock (JTAG)
87	SCK	Input	Serial host interfase: Clockinput (SPI)
88	TDI	Input	ICE interfase data input (JTAG)
89	SI	Input	Serial host interfase: Serialdata input (SPI)
90	GND	—	Ground pin
91	SCKA	Input/Output	Group A serial port clock input /output
92	WSA/FSA	Input/Output	Group A serial port (for input) word selection or frame synchronous input/output
93	VCC	—	Used to connect a power supply of +3.3V ±5%
94	SDF	Input	Data input for serial ports A, E and F
95	WSB	Input/Output	Word selection input/output for the group B serialport
96*	D17	Input/Output	Data bus
97	SCKB	Input/Output	Grop B serial port clock input/output
98*	D16	Input/Output	Data bus
99	SPFTX/SDG	Output	Serial port G data output digital audio interface output terminal
100*	D15	Input/Output	Data bus

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICA18 VHiZR38600/-1: DOLBY AC-3/5.1CH MPEG2 AUDIO DECORDER (ZR38600)

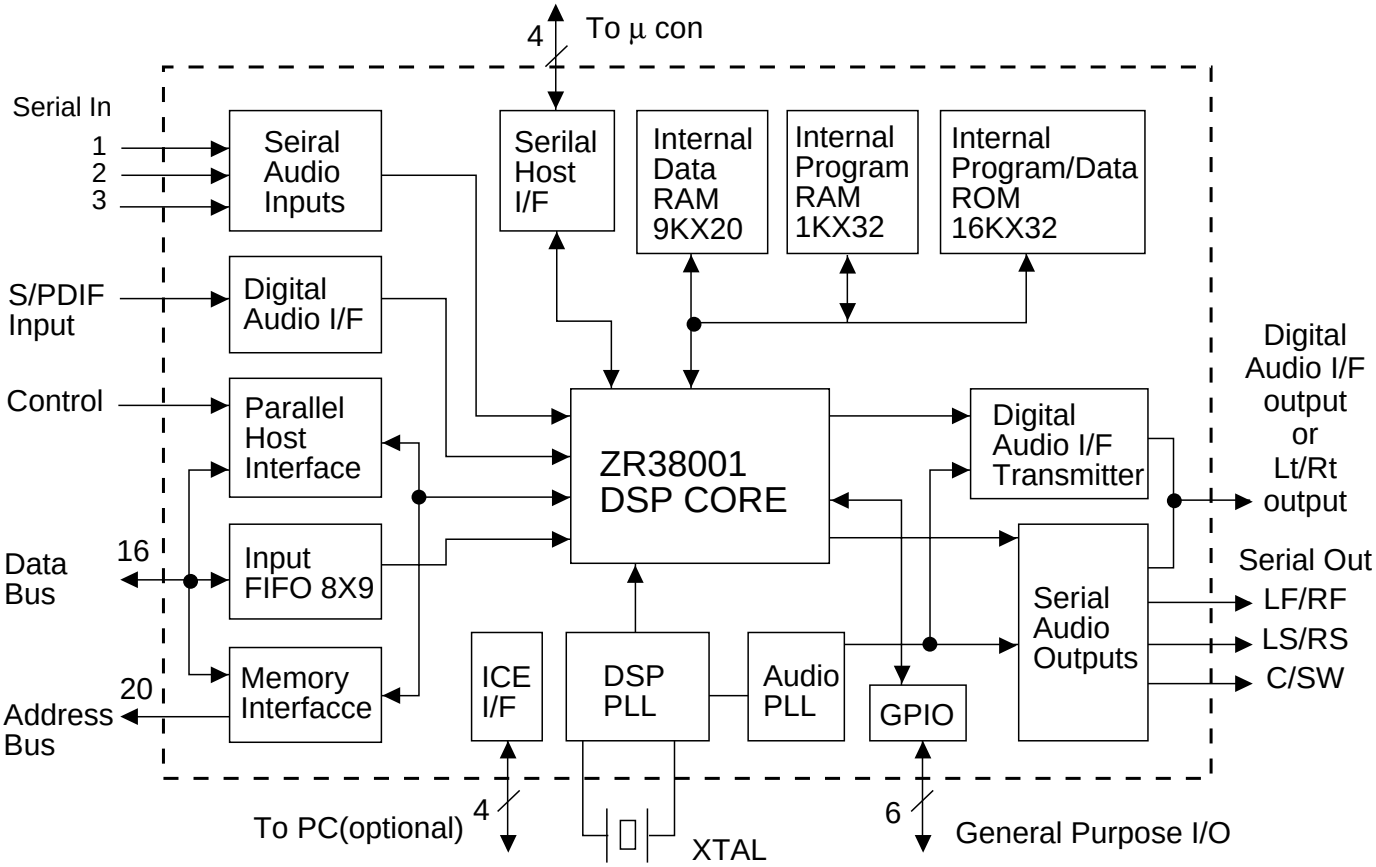
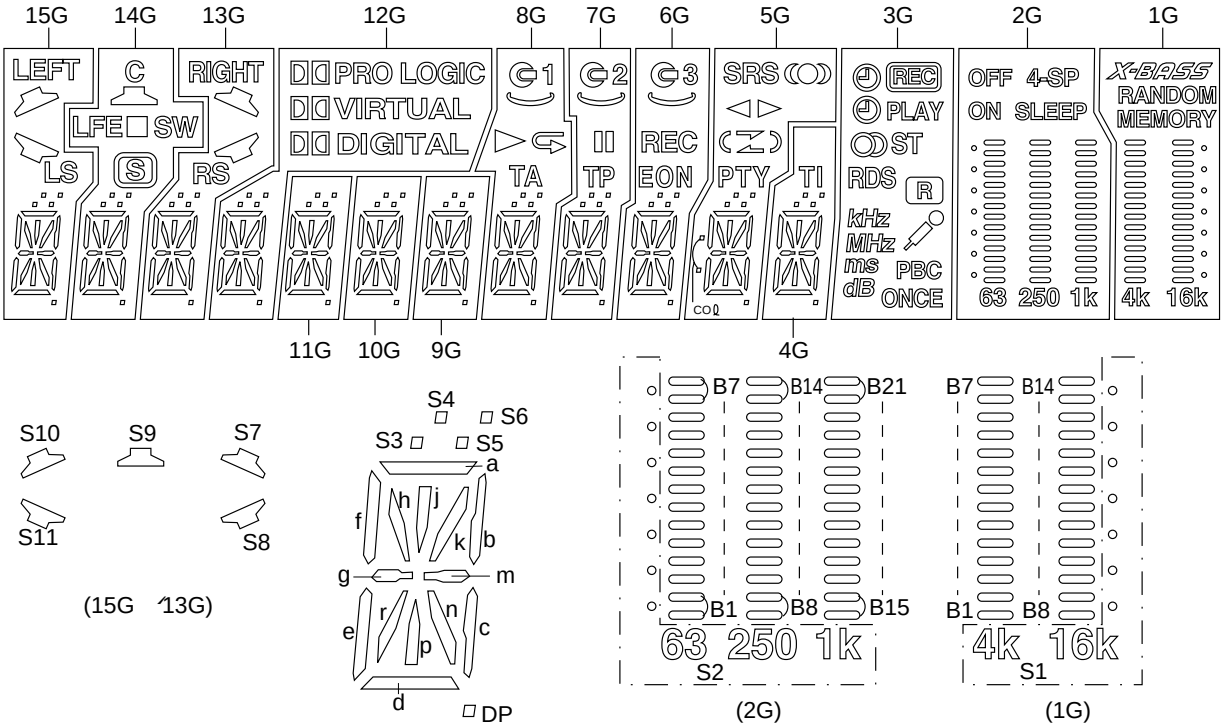


Figure 67 BLOCK DIAGRAM OF IC

FLD01 : VVKBJ613GK/-1 FL Display



	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	LEFT	C	RIGHT	PRO LOGIC	–	–	–	1	2	3	SRS	–	REC	OFF	X-BASS
P2	LS	LFE	RS	VIRTUAL	–	–	–					–	PLAY	4-SP	RANDOM
P3	–	SW	–	DIGITAL	–	–	–		II	REC		–		ON	MEMORY
P4	–	S	–	–	–	–	–		–	–		–	ST	SLEEP	–
P5	S10	S9	S7	–	–	–	–	–	–	–		–	–	–	–
P6	S11	–	S8	–	–	–	–	–	–	–		–	–	B7	B7
P7	–	–	–	–	–	–	–	TA	TP	EON	PTY	TI	RDS	B14	B14
P8	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	R	B21	–
P9	S4	S4	S4	S4	S4	S4	S4	S4	S4	S4	S4	S4	kHz	B6	B6
P10	S5	S5	S5	S5	S5	S5	S5	S5	S5	S5	S5	S5	MHz	B13	B13
P11	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3	S3		B20	–
P12	a	a	a	a	a	a	a	a	a	a	a	a	ms	B5	B5
P13	h	h	h	h	h	h	h	h	h	h	h	h	PBC	B12	B12
P14	j	j	j	j	j	j	j	j	j	j	j	j	dB	B19	–
P15	k	k	k	k	k	k	k	k	k	k	k	k	ONCE	B4	B4
P16	b	b	b	b	b	b	b	b	b	b	b	b	–	B11	B11
P17	f	f	f	f	f	f	f	f	f	f	f	f	–	B18	–
P18	m	m	m	m	m	m	m	m	m	m	m	m	–	B3B	B3
P19	g	g	g	g	g	g	g	g	g	g	g	g	–	B10	B10
P20	c	c	c	c	c	c	c	c	c	c	c	c	–	B17	–
P21	e	e	e	e	e	e	e	e	e	e	e	e	–	B2	B2
P22	r	r	r	r	r	r	r	r	r	r	r	r	–	B9	B9
P23	p	p	p	p	p	p	p	p	p	p	p	p	–	B16	–
P24	n	n	n	n	n	n	n	n	n	n	n	n	–	B1	B1
P25	d	d	d	d	d	d	d	d	d	d	d	d	–	B8	B8
P26	DP	DP	DP	DP	DP	DP	DP	DP	DP	DP	DP	DP	–	B15	–
P27	–	–	–	–	–	–	–	–	–	–	CO	–	–	S2	S1

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
CONNECTION	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25

PIN No.	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
CONNECTION	P26	P27	NC	NC	NC	NC	NC	NC	NC	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G	NP	NP	F2	F2

Figure 68 FL DISPLAY

SHARP PARTS GUIDE

MODEL CD-K491W

CP-K491, CP-SW491, CENTER(GBOXS0010AWM3) and SURROUND(GBOXS0011AWM3) speaker system Constibute CD-K491W.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-K491W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-C491W

INTEGRATED CIRCUITS

IC1	VHILA9241M/-1	J	AS	Servo Amp.,LA9241M
IC2	VHILC78622K-1	J	AY	Servo/Signal Control,LC78622K
IC3	VHIM56748FP-1	J	AR	Focus/Tracking/Spin/Slide Driver,M56748FP
IC81	VHITA7291S/-1	J	AH	Loading Motor Driver,TA7291S
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832//-1	J	AR	FM/AF IF MPX.,LA1832
IC601	VHIM65845FP-1	J	BB	Mic Amp.,M65845FP
ICA11,12	VHINJM4580M-1	J	AE	Ope Amp.,NJM4580M
ICA13	VHIAK4520A/-1	J	AU	20bit 2ch A/D D/A Converter, AK4520A
ICA15	VHI74HCU04F-1	J	AE	Inverter,74HCU04F
ICA16	VHI74HC153F-1	J	AH	Inverter,74HC153F
ICA17	VHITC7WU04U-1	J	AG	Dual2-Input Nand Gate, TC7WU04U
ICA18	VHIZR38600/-1	J	BK	Dolby AC-3/5.1ch MPEG2 Audio Decorder,RZ38600
ICA19,20	VHIAK4321//-1	J	AQ	20bit 2ch D/A Converter,AK4321
ICA21	VHINJM4580M-1	J	AE	Ope Amp.,NJM4580M
ICA22	VHIBU4066BCF1	J	AD	Mic/AUX Input Selector, BU4066BCF
ICB01	VHINJM4580M-1	J	AE	Ope Amp.,NJM4580M
ICD01	RH-IX0234AWZZ	J	AT	System Microcomputer, IX0234AW
ICF01	RH-IX0254AWZZ	J	AQ	System Control Microcomputer, IX0254AW
ICH11	VHINJM4558M-1	J	AC	Motor Driver,NJM4558M
ICH51	VHINJM2246M-1	J	AF	OPE Amp.+ SW,NJM2246M
ICK01	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
ICP11	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
ICQ01	VHIQS7777PF-1	J	BC	Q-Sound Decorder,QS7777PF
ICT01	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
ICV01	VHISTK40727-1	J	BK	3ch AF Power Amp.,STK40727
ICX01	VHISTK40727-1	J	BK	3ch AF Power Amp.,STK40727
ICZ01	VHILC7522//-1	J	AR	Graphic Equalizer Electric Volume,LC7522
ICZ02~07	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
ICZ08	VHITC4052BF-1	J	AK	Dual 4ch Analog Multiplexer, TC4052BF
ICZ09	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
ICZ10	VHIM62446FP-1	J	AY	6ch Electronic Volume, M62446FP

TRANSISTORS

Q1	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q51	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q52	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q91	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q93	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q306~309	VS2SC2878B/-1	J	AC	Silicon,NPN,2SC2878 B
Q353,354	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q361	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q362,363	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
Q364	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
Q365	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q631	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q901	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q902	VS2SD2012//-1	J	AD	Silicon,NPN,2SD2012
Q903	VS2SD468-C/-1	J	AD	Silicon,NPN,2SD468 C
Q904	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
Q905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906	VS2SD2012//-1	J	AD	Silicon,NPN,2SD2012
Q907	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q908	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q909	VS2SD2012//-1	J	AD	Silicon,NPN,2SD2012
Q910	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q911	VS2SD2012//-1	J	AD	Silicon,NPN,2SD2012
Q913	VS2SB1375//-1	J	AF	Silicon,PNP,2SB1375
Q914	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q951	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
QA01	VSKRC107S//-1	J	AB	Digital,NPN,KRC107 S
QA02	VSKRA107S//-1	J	AB	Digital,NPN,KRA107 S
QA03	VSKRC107S//-1	J	AB	Digital,NPN,KRC107 S
QB01	VS2SD2012//-1	J	AD	Silicon,NPN,2SD2012
QD01~08	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QD10~12	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QG01	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
QG02,03	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QG04	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
QG92	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QH51	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QH52,53	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
QK03~06	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
QK07,08	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QK09	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
QK10,11	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
QK13~16	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
QK17,18	VS2SC2878A/-1	J	AE	Silicon,NPN,2SC2878 A
QK19	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
QK21,22	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QK24,25	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
QK26,27	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
QK28	VS2SC2236-Y-1	J	AB	Silicon,NPN,2SC2236 Y
QK29	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QK30	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
QK40	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QL11,12	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
QL13	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
QL14	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
QL15	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
QL16	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QL17~19	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
QP11~16	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QP17	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QP91	VS2SD468-C/-1	J	AD	Silicon,NPN,2SD468 C
QR11~13	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
QT01	VS2SC535-C/-1	J	AC	Silicon,NPN,2SC535 C
QV13,14	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QV16	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QV17	VSKTA1268GR-1	J	AC	Silicon,PNP,KTA1268 GR
QV18,19	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QV20	VSKTA1270Y/-1	J	AD	Silicon,PNP,KTA1270 Y
QV21,22	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QX13~16	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QX17	VSKTA1268GR-1	J	AC	Silicon,PNP,KTA1268 GR
QX18	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QX20	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QY11,12	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QY51,52	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QZ01	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
QZ02	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
QZ03,04	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M

DIODES

D1	VHD1SS133//-1	J	AA	Silicon,1SS133
D2~4	VHDRL104A//-1	J	AB	Silicon,RL104A
D81,82	VHD1SS133//-1	J	AA	Silicon,1SS133
D91	VHD1SS133//-1	J	AA	Silicon,1SS133
D301~304	VHD1SS133//-1	J	AA	Silicon,1SS133
D305~309	VHD1SS135//-1	J	AB	Silicon,1SS135
D310	VHD1SS133//-1	J	AA	Silicon,1SS133
D311	VHD1SS135//-1	J	AB	Silicon,1SS135
D312~314	VHD1SS133//-1	J	AA	Silicon,1SS133
D315~317	VHD1SS135//-1	J	AB	Silicon,1SS135
D351~353	VHD1SS133//-1	J	AA	Silicon,1SS133
D601	VHD1SS133//-1	J	AA	Silicon,1SS133
D901	VHD1SS133//-1	J	AA	Silicon,1SS133
D904	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D905,906	VHD1SS133//-1	J	AA	Silicon,1SS133
⚠ D951~954	VHD1N4004S/-1	J	AB	Silicon,1N4004S
⚠ D991	VHDKBU1003/-1	J	AM	Silicon,KBU1003
⚠ D992~995	VHD2A02////-1	J	AD	Silicon,2A02
D996~999	VHD1N4004S/-1	J	AB	Silicon,1N4004S
DA11~16	VHD1SS133//-V	J	AC	Silicon,1SS133
DB01,02	VHD1SS133//-V	J	AC	Silicon,1SS133
DD01	VHD1N4004S/-1	J	AB	Silicon,1N4004S
DD02	VHD1SS133//-1	J	AA	Silicon,1SS133
DG02~08	VHD1SS133//-1	J	AA	Silicon,1SS133
DH11~20	VHD1SS133//-1	J	AA	Silicon,1SS133
DH51,52	VHD1SS133//-V	J	AC	Silicon,1SS133
DL11,12	VHD1SS133//-1	J	AA	Silicon,1SS133
DQ01,02	VHD1SS133//-1	J	AA	Silicon,1SS133
DR11,12	VHD1SS133//-1	J	AA	Silicon,1SS133
DT01	VHD1SS133//-1	J	AA	Silicon,1SS133
DV13~15	VHD1SS133//-1	J	AA	Silicon,1SS133

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
DV17	VHD1SS133//-1	J	AA	Silicon,1SS133
DV19~25	VHD1SS133//-1	J	AA	Silicon,1SS133
DX13~17	VHD1SS133//-1	J	AA	Silicon,1SS133
DX21	VHD1SS133//-1	J	AA	Silicon,1SS133
DY11,12	VHD1SS133//-1	J	AA	Silicon,1SS133
DY51,52	VHD1SS133//-1	J	AA	Silicon,1SS133
DZ01,02	VHD1SS133//-1	J	AA	Silicon,1SS133
LEDD01,02	VHPKL052UL/-1	J	AF	LED,Yellow,KL052UL
LEDD03	VHPSLR505MC-1	J	AE	LED,Green,SLR505MC-1
LEDD04	VHPKL052UL/-1	J	AF	LED,Yellow,KL052UL
LEDD05,06	VHPSLR325MG-1	J	AE	LED,Green,SLR325MG
LEDD07	VHPSLR325VR-1	J	AE	LED,Red,SLR325VR
LEDD08,09	VHPSLR325MG-1	J	AE	LED,Green,SLR325MG
LEDD10	VHPSLR325VR-1	J	AE	LED,Red,SLR325VR
LEDD11,12	VHPSLR325MG-1	J	AE	LED,Green,SLR325MG
LEDD13	VHPSLR325VR-1	J	AE	LED,Red,SLR325VR
LEDD14,15	VHPSLR325MG-1	J	AE	LED,Green,SLR325MG
LEDD16,17	VHPSLR325VR-1	J	AE	LED,Red,SLR325VR
LEDD18,19	VHPSLR325MG-1	J	AE	LED,Green,SLR325MG
LEDD20	VHPKL052UL/-1	J	AF	LED,Yellow,KL052UL
LEDD21	VHPSLR505MC-1	J	AE	LED,Green,SLR505MC-1
LEDD23~28	VHPLMKD515B-1	J	AE	LED,Green,LMKD515B
PHM1	VHPI31535CD-1	J	AG	Photo Interrupter
VD301,302	VHCKV1236Z23F	J	AS	Variable Capacitance, KV1236Z23F
VDT01,02	VHCKDV147C/-1	J	AH	Variable Capacitance, KDV147C
ZD61	VHEMTZJ4R7B-1	J	AB	Zener,4.7V,MTZJ4.7B
ZD351	VHEMTZJ4R7B-1	J	AB	Zener,4.7V,MTZJ4.7B
ZD352	VHEMTZJ3R9B-1	J	AC	Zener,3.9V,MTZJ3.9B
ZD631	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B
ZD901	VHEMTZJ130A-1	J	AC	Zener,13V,MTZJ13A
ZD902	VHEMTZJ5R6A-1	J	AC	Zener,5.6V,MTZJ5.6A
ZD903	VHEMTZJ130C-1	J	AB	Zener,13V,MTZJ13C
ZD904	VHEMTZJ8R2C-1	J	AB	Zener,8.2V,MTZJ8.2C
ZD905	VHEMTZJ6R8C-1	J	AA	Zener,6.8V,MTZJ6.8C
ZD951	VHEMTZJ330C-1	J	AB	Zener,33V,MTZJ33C
ZD952	VHEMTZJ6R8C-1	J	AA	Zener,6.8V,MTZJ6.8C
ZDA01,02	VHEMTZJ8R2A-V	J	AB	Zener,8.2V,MTZJ8.2A
ZDB11	VHEMTZJ3R9B-V	J	AC	Zener,3.9V,MTZJ3.9B
ZDF01	VHEMTZJ3R3A-1	J	AB	Zener,3.3V,MTZJ3.3A
ZDH51	VHEMTZJ9R1B-V	J	AB	Zener,9.1V,MTZJ9.1B
ZDQ01	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZDR01	VHEMTZJ3R3B-1	J	AA	Zener,3.3V,MTZJ3.3B
ZDV11	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZDV12	VHEMTZJ6R2B-1	J	AC	Zener,6.2V,MTZJ6.2B
ZDZ01,02	VHEMTZJ7R5C-1	J	AC	Zener,7.5V,MTZJ7.5C
ZDZ03	VHEMTZJ5R1A-1	J	AB	Zener,5.1V,MTZJ5.1A

FILTERS

BFT01	92LFILTF1759A	J	AD	FM Band Pass Filter
CF302	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

T302	RCILA1064AFZZ	J	AD	MW Antenna
T303	92LCOILA1586B	J	AG	SW1 Antenna
T304	RCILA0014AWZZ	J	AE	SW2 Antenna
T306	RCILB1074AFZZ	J	AC	OSC,MW
T307	RCILB0015AWZZ	J	AD	SW1 Oscillation
T308	RCILB0014AWZZ	J	AD	SW2 Oscillation
T351	RCILI0011AWZZ	J	AD	AM IF
⚠ T991	RTRNP0209AWZZ	J	BM	Power Transformer
TT01	RCILI0012AWZZ	J	AD	FM IF

COILS

L61	VP-XHR82K0000	J	AC	0.82 µH,Choke
L311	VP-YF561K0000	J	AD	560 µH
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L353	VP-DH102K0000	J	AB	1 mH,Choke
L356	VP-YF102J0000	J	AC	1 mH
L357	VP-YF472J0000	J	AC	4.7 mH
L358	VP-YF561K0000	J	AD	560 µH
LA12	VP-XF180K0000	J	AB	18 µH
LA13	VP-XFR82K0000	J	AD	0.82 µH
LA14	VP-XF100K0000	J	AB	10 µH,Choke
LA16~18	VP-XF180K0000	J	AB	18 µH
LD01	VP-DH2R2M0000	J	AB	2.2 µH,Choke
LG01	VP-DH2R2K0000	J	AB	2.2 µH,Peaking
LH51,52	VP-XF1R0K0000	J	AB	1 µH,Choke
LH53	VP-XF101K0000	J	AB	100 µH,Choke
LK01,02	VP-MK182K0000	J	AC	1.8 mmH,Choke
LK03	VP-MK102K0000	J	AB	1 mH,Choke
LK04	VP-MK331K0000	J	AB	330 µH,Choke
LR01	VP-DH2R2K0000	J	AB	2.2 µH,Peaking
LT01	RCILR0029AWZZ	J	AA	FM RF
LT02	RCILB0045AWZZ	J	AD	FM Oscillation
LV91	VP-XH2R2K0000	J	AB	2.2 µH,Choke

VARIABLE RESISTORS

VR351	RVR-M0026AWZZ	J	AC	10 kohm (B),Semi-VR [FM Mute Level]
VR601~603	92LVRR1674A	J	AF	20 kohms (B),[Mic1/Mic2/Echo]
VRM1	RVR-M0556AFZZ	J	AB	3.3 kohms (B),Semi-VR [Tape Speed]

VARIABLE CAPACITORS

TC302~305	92LTO-1527AT	J	AF	Timmer,20 pF

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XA11	RCRSP0008AWZZ	J	AH	Crystal 12.288 MHz
XD01	RCRM-0031AWZZ	J	AE	Ceramic
XF01	RCRSP0003AWZZ	J	AH	Crystal
XL1	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz

CAPACITORS

C1	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C2	VCTYMN1CY103N	J	AA	0.01 µF,16V
C3	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C4	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C5,6	VCTYPA1CX333K	J	AA	0.033 µF,16V
C7	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C8	VCTYPA1CX683K	J	AA	0.068 µF,16V
C9	VCTYPA1CX473K	J	AA	0.047 µF,16V
C10	VCKYMN1HB181K	J	AA	180 pF,50V
C11,12	VCTYPA1CX104K	J	AB	0.1 µF,16V
C13	VCKYMN1HB331K	J	AA	330 pF,50V
C14,15	VCTYMN1CY103N	J	AA	0.01 µF,16V
C16	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C17	VCKYMN1HB102K	J	AA	0.001 µF,50V
C18	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C19	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C20	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C21	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C22	VCCSPA1HL221J	J	AA	220 pF,50V
C23	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C24	VCCSMN1HL2R2C	J	AB	2.2 pF,50V
C25	VCCSMN1HL270J	J	AA	27 pF,50V
C26	VCTYPA1CX333K	J	AA	0.033 µF,16V
C27	VCKYMN1HB102K	J	AA	0.001 µF,50V
C28	VCTYPA1CX104K	J	AB	0.1 µF,16V
C29	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C30	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C31	VCEAZA0JW227M	J	AC	220 µF,6.3V,Electrolytic
C32	VCTYMN1CY103N	J	AA	0.01 µF,16V
C33	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C34	VCEAZA1HW334M	J	AB	0.33 µF,50V,Electrolytic
C35	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C36	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C37	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C38	VCTYMN1CY103N	J	AA	0.01 µF,16V
C39,40	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C41	VCCCPA1HH120J	J	AA	12 pF (CH),50V
C42	VCCCPA1HH150J	J	AA	15 pF (CH),50V
C43	VCEAZA0JW337M	J	AC	330 µF,6.3V,Electrolytic
C44~49	VCKYMN1HB101K	J	AA	100 pF,50V
C50	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C51,52	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C53	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C54	VCKYBT1HB102K	J	AA	0.001 µF,50V
C56	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C57	VCKYBT1HB102K	J	AA	0.001 µF,50V
C81,82	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C83	VCTYMN1EF223Z	J	AA	0.022 µF,25V

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C85	VCKYBT1HB102K	J	AA	0.001 µF,50V
C301	VCKYMN1HB102K	J	AA	0.001 µF,50V
C303,304	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C305	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C306	VCCUMN1HJ100J	J	AA	10 pF (UJ),50V
C307	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C308	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V
C309	VCKYMN1HB331K	J	AA	330 pF,50V
C310	VCKYMN1HB102K	J	AA	0.001 µF,50V
C311~314	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C315,316	VCTYPA1CX104K	J	AB	0.1 µF,16V
C318,319	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C320	VCTYMN1CX182K	J	AA	0.0018 µF,16V
C321	VCTYMN1CX392K	J	AA	0.0039 µF,16V
C330	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C334	VCCUMN1HJ180J	J	AA	18 pF (UJ),50V
C335	VCCCMN1HH180J	J	AA	18 pF (CH),50V
C336	VCKYMN1HB471K	J	AA	470 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C343	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C349	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C350,351	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C352	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C360,361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C365	VCTYMN0JY223N	J	AA	0.022 µF,6.3V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C370~372	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX223K	J	AA	0.022 µF,16V
C375	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C380	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C383	VCTYBT1CX222M	J	AA	0.0022 µF,16V
C385	VCTYMN1CY103K	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C390	VCKYMN1HB101K	J	AA	100 pF,50V
C391	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C394	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C601,602	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C604	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C605	VCKYPA1HB271K	J	AA	270 pF,50V
C606	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C608	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C609	VCKYPA1HB271K	J	AA	270 pF,50V
C610	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C611	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C612	VCTYPA1CX822K	J	AA	0.0082 µF,16V
C613	VCQYKA1HM683J	J	AB	0.068 µF,50V,Mylar
C614	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C615	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C616,617	VCEAZA1HW154M	J	AB	0.15 µF,50V,Electrolytic
C618	VCQYKA1HM103J	J	AB	0.01 µF,50V,Mylar
C619	VCKYPA1HB101K	J	AA	100 pF,50V
C620~623	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C624	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C625	VCTYPA1CX822K	J	AA	0.0082 µF,16V
C626	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C627	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
C628	VCQYKA1HM823J	J	AC	0.082 µF,50V,Mylar
C629	VCQYKA1HM683J	J	AB	0.068 µF,50V,Mylar
C630	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C631	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C632	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C633	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C634	VCQYKA1HM823J	J	AC	0.082 µF,50V,Mylar
C672	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C673	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C674	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C677	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C901	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C902~905	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C906	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C907	VCEAZA1EW227M	J	AC	220 µF,25V,Electrolytic
C908	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C909	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C910	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C911	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C913	VCEAZW1EW338M	J	AG	3300 µF,25V,Electrolytic
C914	VCEAZA1EW107M	J	AB	100 µF,25V,Electrolytic
C915	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C919	VCEAZW1EW478M	J	AK	4700 µF,25V,Electrolytic
C920	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C954	VCQYKA1HM224K	J	AB	0.22 µF,50V,Mylar
C956	VCQYKA1HM224K	J	AB	0.22 µF,50V,Mylar
C957,958	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C959~961	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C962	VCEAZA1JW476M	J	AC	47 µF,63V,Electrolytic
C963,964	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C965	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C966,967	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
CA11,12	VCEAZA1CW226M	J	AC	22 µF,16V,Electrolytic
CA13,14	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA15~18	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA19,20	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA21,22	VCKYTV1HB152K	J	AA	0.0015 µF,50V
CA23	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA24	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA25	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA26	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA27	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA28	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA30	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA32	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA33	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA34	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA35	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA36	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA37	VCKYTV1HB102K	J	AA	0.001 µF,50V
CA38~41	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA42,43	VCKYTV1HB102K	J	AA	0.001 µF,50V
CA44,45	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA46	VCKYTV1CB473K	J	AC	0.047 µF,16V
CA47	VCKYTV1HB102K	J	AA	0.001 µF,50V
CA48,49	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA50,51	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
CA52	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA53	VCKYTV1HB102K	J	AA	0.001 µF,50V
CA54	VCCCTV1HH180J	J	AA	18 pF (CH),50V
CA55	VCCCTV1HH220J	J	AA	22 pF (CH),50V
CA56	VCKYTV1HF473Z	J	AA	0.047 µF,50V
CA57	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA58	VCEAZA0JW227M	J	AC	220 µF,6.3V
CA59	VCKYTV1HB102K	J	AA	0.001 µF,50V
CA60,61	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA62	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CA63,64	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA65,66	VCKYTV1HB153K	J	AA	0.015 µF,50V
CA67,68	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA69,70	VCKYTV1HB153K	J	AA	0.015 µF,50V
CA71	VCKYTV1HF473Z	J	AA	0.047 µF,50V
CA72	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA73	VCEAZA0JW227M	J	AC	220 µF,6.3V
CA74	VCKYTV1HB102K	J	AA	0.001 µF,50V
CA75,76	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA77	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CA79,80	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CA81	VCKYTV1HB153K	J	AA	0.015 µF,50V
CA82	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA83	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CA84	VCCCTV1HH470J	J	AA	47 pF (CH),50V
CA85,86	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CA87	VCKYTV1HB102K	J	AA	0.001 µF,50V
CA88	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CA91,92	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CA93	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CA95,96	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CA97	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CA98	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CB01,02	VCKYTV1HB101K	J	AA	100 pF,50V
CB03,04	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CB05,06	VCKYTV1HB221K	J	AA	220 pF,50V
CB11	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CB12	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
CB13	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CB14~17	VCKYPA1HB102K	J	AA	0.001 µF,50V
CB18	VCKYTV1HF103Z	J	AA	0.01 µF,50V
CB20,21	VCKYPA1HB102K	J	AA	0.001 µF,50V
CB22	VCKYTV1HB102K	J	AA	0.001 µF,50V
CB26	VCKYTV1HB102K	J	AA	0.001 µF,50V
CB27	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CD01	VCTYBT1EF223Z	J	AA	0.022 µF,25V
CD02	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
CD05~08	VCKYBT1HB102K	J	AA	0.001 µF,50V
CD09	VCKYBT1HB151K	J	AA	150 pF,50V
CD10	VCEAZA0JW227M	J	AC	220 µF,6.3V,Electrolytic
CD11	VCTYBT1EF223Z	J	AA	0.022 µF,25V
CD18~21	VCKYBT1HB151K	J	AA	150 pF,50V
CD28~30	RC-EZY105AF1H	J	AB	1 µF,50V,Electrolytic
CG01	VCEAZA1AW477M	J	AC	470 µF,10V,Electrolytic
CG02	VCTYMN1CY103K	J	AA	0.01 µF,16V
CG03	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
CG04	VCTYMN1CY103K	J	AA	0.01 µF,16V
CG05,06	VCCCMN1HH150J	J	AA	15 pF (CH),50V
CG08	VCKYBT1HB102K	J	AA	0.001 µF,50V
CG56	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CG57	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CH10	VCCSMN1HL470J	J	AA	47 pF,50V
CH13	VCKYMN1HB331K	J	AA	330 pF,50V
CH15	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
CH16	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CH17	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
CH18	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
CH19	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CH20	VCTYMN0JY153M	J	AA	0.015 µF,6.3V
CH21	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
CH22	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CH23	VCTYMN1CX472K	J	AA	0.0047 µF,16V
CH24	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
CH25	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
CH26	VCTYMN1CX122K	J	AA	0.0012 µF,16V
CH27	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
CH28,29	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CH30	VCQYKA1HM562K	J	AA	0.0056 µF,50V,Mylar
CH51	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CH52	VCKYTV1HB221K	J	AA	220 pF,50V
CH53	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
CH54	VCKYTV1HB221K	J	AA	220 pF,50V
CH55	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
CH56	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CH57	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CH58	VCKYTV1CB473K	J	AC	0.047 µF,16V
CH59	VCCCTV1HH470J	J	AA	47 pF (CH),50V
CH60	VCEAZA1AW108M	J	AC	1000 µF,10V,Electrolytic
CH61	VCKYTV1HB102K	J	AA	0.001 µF,50V
CH62	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CK01,02	VCKYMN1HB681K	J	AA	680 pF,50V
CK05,06	VCKYMN1HB331K	J	AA	330 pF,50V
CK07,08	VCKYMN1HB102K	J	AA	0.001 µF,50V
CK09	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CK10	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK11~14	VCKYMN1HB331K	J	AA	330 pF,50V
CK15,16	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CK17,18	VCTYPA1CX333K	J	AA	0.033 µF,16V
CK19,20	VCKYMN1HB561K	J	AA	560 pF,50V
CK21,22	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CK23,24	VCTYPA1CX103M	J	AA	0.01 µF,16V
CK25,26	VCTYPA1EX822K	J	AA	0.0082 µF,25V
CK27	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK28	VCEAZA1EW335M	J	AB	3.3 µF,25V,Electrolytic
CK29,30	VCKYMN1HB471K	J	AA	470 pF,50V
CK31,32	VCKYMN1HB271K	J	AA	270 pF,50V
CK33,34	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
CK35,36	VCTYPA1CX223K	J	AA	0.022 µF,16V
CK37,38	VCTYPA1CX183K	J	AA	0.018 µF,16V
CK39,40	VCTYMN1CX332K	J	AA	0.0033 µF,16V
CK41,42	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK43,44	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK45	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
CK46	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
CK47	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK50	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
CK51	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
CK52	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CK55	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK60	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CK62	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
CL12	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CL13	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
CP07,08	VCKYMN1HB101K	J	AA	100 pF,50V
CP09,10	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CP13,14	VCKYMN1HB102K	J	AA	0.001 µF,50V
CP15,16	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CP17,18	VCCSMN1HL470J	J	AA	47 pF,50V
CP19,20	VCQYKA1HM104J	J	AC	0.1 µF,50V,Mylar
CP23,24	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CP25,26	VCKYMN1HB102K	J	AA	0.001 µF,50V
CP27,28	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CP29,30	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CP31,32	VCKYMN1HB102K	J	AA	0.001 µF,50V
CP37,38	VCKYMN1HB102K	J	AA	0.001 µF,50V
CP41,42	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CP44	VCKYMN1HB102K	J	AA	0.001 µF,50V
CP47	VCKYMN1HB102K	J	AA	0.001 µF,50V
CP53	VCKYMN1HB102K	J	AA	0.001 µF,50V
CP57	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
CP58	VCTYPA1CX683K	J	AA	0.068 µF,16V
CP91	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
CQ01~05	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CQ06	VCQYKA1HM102J	J	AB	0.001 µF,50V,Mylar
CQ07	VCQYKA1HM123J	J	AB	0.012 µF,50V,Mylar
CQ08	VCQYKA1HM823J	J	AC	0.082 µF,50V,Mylar
CQ09,10	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
CQ11	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
CQ12	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
CQ13	VCQYKA1HM272J	J	AB	0.0027 µF,50V,Mylar
CQ14	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CQ15	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CQ16~20	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CQ21	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CQ22,23	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
CQ24	VCQYKA1HM472K	J	AB	0.0047 µF,50V,Mylar
CQ25	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CQ26,27	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
CQ28	VCQYKA1HM472K	J	AB	0.0047 µF,50V,Mylar
CQ29	RC-EZ0004AWZZ	J	AD	100 µF,10V,Electrolytic
CQ30	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CQ31	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CQ32,33	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
CQ34	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CQ35,36	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
CR01	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CR02	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
CR03	VCKYPA1HB102K	J	AA	0.001 µF,50V
CR10	VCKYMN1HB102K	J	AA	0.001 µF,50V
CR11~14	VCKYMN1HB391K	J	AA	390 pF,50V
CR15~17	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
CR65,66	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CT01	VCCCMN1HH180J	J	AA	18 pF (CH),50V
CT02	VCTYMN1CY103N	J	AA	0.01 µF,16V
CT03	VCCSMN1HL4R7C	J	AA	4.7 pF,50V
CT04	VCKYMN1HB102K	J	AA	0.001 µF,50V
CT05	VCCUMN1HJ6R8D	J	AB	6.8 pF (UJ),50V
CT06	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CT07	VCKYMN1HB102K	J	AA	0.001 µF,50V
CT08,09	VCTYMN1CX472K	J	AA	0.0047 µF,16V
CT10	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CT11	VCCCMN1HH150J	J	AA	15 pF (CH),50V
CT12	VCCSMN1HL330J	J	AA	33 pF,50V
CT13	VCCUMN1HJ3R9K	J	AA	3.9 pF (UJ),50V
CT14	VCCCMN1HH220J	J	AA	22 pF (CH),50V
CT15	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CT16	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CV11~14	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CV15,16	VCKYPA1HB471K	J	AA	470 pF,50V
CV17,18	VCCSPA1HL470J	J	AA	47 pF,50V
CV19,20	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
CV21,22	VCCSPA1HL150J	J	AA	15 pF,50V
CV23,24	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
CV25,26	VCKYPA1HF223Z	J	AB	0.022 µF,50V

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CV27	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
CV28	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
CV29,30	VCEAZW1HW338M	J	AH	3300 µF,50V,Electrolytic
CV31~34	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CV35~42	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CV43,44	VCKYPA1HB102K	J	AA	0.001 µF,50V
CV45,46	VCKYBT1HB102K	J	AA	0.001 µF,50V
CV47	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CV48	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
CV49	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
CV91,92	VCCSPA1HL101J	J	AA	100 pF,50V
CX11~14	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CX15,16	VCKYPA1HB471K	J	AA	470 pF,50V
CX17,18	VCCSPA1HL470J	J	AA	47 pF,50V
CX19,20	VCCSPA1HL150J	J	AA	15 pF,50V
CX21,22	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
CX23,24	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
CX25,26	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CX27	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
CX28	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
CX29,30	VCEAZW1HW338M	J	AH	3300 µF,50V,Electrolytic
CX31~34	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CY11,12	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CY13	VCKYPA1HB471K	J	AA	470 pF,50V
CY14	VCCSPA1HL470J	J	AA	47 pF,50V
CY15	VCCSPA1HL150J	J	AA	15 pF,50V
CY16	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
CY17	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CY18,19	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CY51,52	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CY53	VCKYPA1HB471K	J	AA	470 pF,50V
CY54	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
CY55	VCCSPA1HL470J	J	AA	47 pF,50V
CY56	VCCSPA1HL150J	J	AA	15 pF,50V
CY57	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CY58,59	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CZ01,02	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CZ03,04	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CZ05,06	VCQYKA1HM472K	J	AB	0.0047 µF,50V,Mylar
CZ07,08	VCCSPA1HL271J	J	AA	270 pF,50V
CZ09,10	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
CZ11,12	VCQYKA1HM152K	J	AB	0.0015 µF,50V,Mylar
CZ13,14	VCQYKA1HM274K	J	AB	0.27 µF,50V,Mylar
CZ15,16	VCQYKA1HM123J	J	AB	0.012 µF,50V,Mylar
CZ17,18	VCQYKA1HM184K	J	AC	0.18 µF,50V,Mylar
CZ19,20	VCQYKA1HM333K	J	AB	0.033 µF,50V,Mylar
CZ21,22	VCEAZA1HW334M	J	AB	0.33 µF,50V,Electrolytic
CZ23,24	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
CZ25	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ26,27	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
CZ28,29	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ30	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
CZ31	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ32	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
CZ33	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ34	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CZ35	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ36	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CZ37	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ38	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CZ39	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ40	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CZ41	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CZ42,43	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CZ44,45	VCCSMN1HL470J	J	AA	47 pF,50V
CZ46,47	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CZ48~53	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CZ54	VCTYBT1EF223Z	J	AA	0.022 µF,25V
CZ55	VCKYBT1HB102K	J	AA	0.001 µF,50V
CZ56~61	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CZ62	VCEAZA1CW226M	J	AC	22 µF,16V,Electrolytic
CZ63	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
CZ64	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CZ65	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
CZ66	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CZ67	VCEAZA1CW226M	J	AC	22 µF,16V,Electrolytic
CZ69,70	VCKYMN1HB101K	J	AA	100 pF,50V
CZ71	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,1.4×3.5mm,Ivory
	VRS-TQ2BB000J	J	AA	0 ohm, Jumper,1.55×3.1mm, Green
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R1	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R2	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R8	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R9	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R10	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R11	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R12	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R13	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R14	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R15	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R16	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R17	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R18	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R19,20	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R21,22	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R23	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R24	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R25	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R26	VRD-MN2BD823J	J	AA	82 kohms,1/8W
R27	VRD-MN2BD393J	J	AA	39 kohms,1/8W
R28	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R29	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R30	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R31	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R32	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R33	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R34	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R35,36	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R37	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R38	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R39	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R40	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R41,42	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R43	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R44	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R45	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R46	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R47,48	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R50	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R51	VRD-ST2CD335J	J	AA	3.3 Mohms,1/6W
R52	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R53	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R54	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R55	VRD-MN2BD151J	J	AA	150 ohms,1/8W
R57	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R58,59	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R60~62	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R63	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R64	VRD-MN2BD220J	J	AA	22 ohms,1/8W
R66	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R80	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R81	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R82	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R83	VRD-ST2EE3R9J	J	AA	3.9 ohms,1/4W
R85	VRD-RT2HD560J	J	AA	56 ohms,1/2W
R86	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R87	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R88~90	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R93	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R302	VRD-ST2CD820J	J	AA	82 ohms,1/6W
R310	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R312	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R313	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R314	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R315	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R316	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R317	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R318	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R319	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R320	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R321,322	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R324	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R325	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R326	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R327	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R328	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R329	VRD-MN2BD104J	J	AA	100 kohm,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R330	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R338,339	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R340	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R341~343	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R354	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361,362	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R363,364	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R365,366	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R367	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R368	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R371~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383~385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R387	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R390	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R391,392	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R393	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R395	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R396	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R397	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R398	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R601,602	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R603	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R604,605	VRD-ST2CD154J	J	AA	150 kohms,1/6W
R606	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R607	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R608	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R609	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R610,611	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R612	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R614	VRD-ST2CD393J	J	AA	39 kohms,1/6W
R615	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R616	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R617	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R618	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R619	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R636	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R667	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R668	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R669,670	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R901	VRS-VV3LA470J	J	AC	47 ohms,1W
R902	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R903	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R904	VRD-ST2EE152J	J	AA	1.5 kohms,1/4W
⚠R905	VRG-ST2EC220J	J	AB	22 ohms,1/4W,Fusible
R906	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R907	VRD-ST2EE561J	J	AA	560 ohms,1/4W
R908	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R909	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R910	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R911	VRD-ST2EE561J	J	AA	560 ohms,1/4W
R912	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R913	VRD-ST2EE561J	J	AA	560 ohms,1/4W
R914	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R917	VRD-ST2EE472J	J	AA	4.7 kohms,1/4W
R918	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R921	VRS-VV3LA101J	J	AC	100 ohm,1W
R953,954	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R955	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R956	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R957	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RA01~06	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
RA07,08	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA09,10	VRS-TV2AB331J	J	AA	330 ohms,1/10W
RA11,12	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA13~22	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA23,24	VRS-TV2AB331J	J	AA	330 ohms,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RA25,26	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA27,28	VRS-TQ2BB151J	J	AA	150 ohms,1/8W
RA29	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA30	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
RA32	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA33	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
RA34~37	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA39,40	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA41	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA42	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA43	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA44	VRS-TV2AB271J	J	AA	270 ohms,1/10W
RA48,49	VRS-TV2AB271J	J	AA	270 ohms,1/10W
RA50	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA51	VRS-TV2AB271J	J	AA	270 ohms,1/10W
RA52,53	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA54~57	VRS-TV2AB271J	J	AA	270 ohms,1/10W
RA59	VRS-TV2AB105J	J	AA	1 Mohm,1/10W
RA60	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RA61,62	VRS-TV2AB273J	J	AA	27 kohms,1/10W
RA63,64	VRS-TV2AB221J	J	AA	220 ohms,1/10W
RA65,66	VRS-TV2AB273J	J	AA	27 kohms,1/10W
RA67,68	VRS-TV2AB221J	J	AA	220 ohms,1/10W
RA71,72	VRS-TV2AB273J	J	AA	27 kohms,1/10W
RA73,74	VRS-TV2AB221J	J	AA	220 ohms,1/10W
RA75	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA76	VRS-TV2AB104J	J	AA	100 kohm,1/10W
RA77	VRS-TV2AB272J	J	AA	2.7 kohms,1/10W
RA78	VRS-TV2AB183J	J	AA	18 kohms,1/10W
RA79	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RA80	VRS-TV2AB104J	J	AA	100 kohm,1/10W
RA82,83	VRS-TV2AB104J	J	AA	100 kohm,1/10W
RA85	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
RA87~90	VRS-TV2AB223J	J	AA	22 kohms,1/10W
RA91,92	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RA93~96	VRS-TQ2BB681J	J	AA	680 ohms,1/8W
RB01,02	VRS-TV2AB223J	J	AA	22 kohms,1/10W
RB03,04	VRS-TV2AB273J	J	AA	27 kohms,1/10W
RB05,06	VRS-TV2AB101J	J	AA	100 ohm,1/10W
RB07,08	VRS-TV2AB104J	J	AA	100 kohm,1/10W
RB09	VRD-ST2CD561J	J	AA	560 ohms,1/6W
RB11,12	VRS-TQ2BB391J	J	AA	390 ohms,1/8W
RD01~06	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD07	VRD-ST2CD561J	J	AA	560 ohms,1/6W
RD08	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD09	VRD-ST2CD561J	J	AA	560 ohms,1/6W
RD10	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD11	VRD-ST2CD561J	J	AA	560 ohms,1/6W
RD12	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD13	VRD-ST2CD561J	J	AA	560 ohms,1/6W
RD14~17	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD19	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD21,22	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD26~28	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD29	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RD31~33	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD34	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD35~45	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD48,49	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD50	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD51	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD52	VRD-ST2CD561J	J	AA	560 ohms,1/6W
RD53	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD54	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD55	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD57	VRD-ST2EE390J	J	AA	39 ohms,1/4W
RD58,59	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RD60,61	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RD62	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RD64,65	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RD70~72	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RE01	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RE02	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RE03	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RE04	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RE11	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RE12	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RE13	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RE14	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RE15	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RE16	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RE21	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RE22	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RE23	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RE25,26	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RE27	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RE28	VRD-ST2CD123J	J	AA	12 kohms,1/6W
RE29	VRD-ST2CD273J	J	AA	27 kohms,1/6W
RE31	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RE32	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RE33	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RE34	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RE35	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RE36	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RE37	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RE38	VRD-ST2CD123J	J	AA	12 kohms,1/6W
RE39	VRD-ST2CD273J	J	AA	27 kohms,1/6W
RE41	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RE42	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RE43	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RE44	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RE45	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RE51	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RE52	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RE53	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RE54	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RE55	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RE56	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RE57	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RF01,02	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF03~05	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF06~14	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF19~23	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF24	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RF25~28	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF29~32	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF33~35	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF36	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF37,38	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF39,40	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF41,42	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF43	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF44	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF46,47	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF48,49	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF50,51	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF52,53	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF54	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF55	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF58	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF59,60	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF61	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF62	VRD-MN2BD101J	J	AA	100 ohm,1/8W
RF63	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF64,65	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF66~70	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF71	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF73	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF74,75	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF76	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF77	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RF78	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF79	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RF80	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF81	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF82	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF83	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RF84~86	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF87,88	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF91	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF92	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF93,94	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF95	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RF96,97	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RF98,99	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RG01	VRD-ST2CD224J	J	AA	220 kohms,1/6W
RG04~08	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RG11	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RG15	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RG16	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RG17	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RG19	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RG20~22	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RG23,24	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RG25	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RG26	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RG29,30	VRD-MN2BD151J	J	AA	150 ohms,1/8W
RG31	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RG32	VRD-MN2BD101J	J	AA	100 ohm,1/8W
RG33,34	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RG35	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RG36	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RG37	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RG38	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RG39	VRD-MN2BD820J	J	AA	82 ohms,1/8W
RG55,56	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RG94	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RG95	VRD-MN2BD474J	J	AA	470 kohms,1/8W
RG96	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RH11	VRD-MN2BD154J	J	AA	150 kohms,1/8W
RH12	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RH13	VRD-MN2BD154J	J	AA	150 kohms,1/8W
RH14	VRD-MN2BD564J	J	AA	560 kohms,1/8W
RH15	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RH16	VRD-MN2BD474J	J	AA	470 kohms,1/8W
RH17	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RH20	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RH21	VRD-MN2BD564J	J	AA	560 kohms,1/8W
RH22	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RH24	VRD-MN2BD474J	J	AA	470 kohms,1/8W
RH25	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RH26	VRD-MN2BD564J	J	AA	560 kohms,1/8W
RH27	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RH29	VRD-MN2BD474J	J	AA	470 kohms,1/8W
RH30	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RH31	VRD-MN2BD564J	J	AA	560 kohms,1/8W
RH32	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RH34	VRD-MN2BD474J	J	AA	470 kohms,1/8W
RH35	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RH36	VRD-MN2BD564J	J	AA	560 kohms,1/8W
RH37	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RH39	VRD-MN2BD474J	J	AA	470 kohms,1/8W
RH53	VRS-TV2AB101J	J	AA	100 ohm,1/10W
RH56	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
RH57,58	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RH61~64	VRS-TQ2BB151J	J	AA	150 ohms,1/8W
RH65	VRS-TQ2BB121J	J	AA	120 ohms,1/8W
RH66	VRS-TQ2BB151J	J	AA	150 ohms,1/8W
RH67	VRS-TQ2BB391J	J	AA	390 ohms,1/8W
RH68	VRS-TQ2BB471J	J	AA	470 ohms,1/8W
RK01,02	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK03,04	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RK05,06	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RK07,08	VRD-MN2BD473J	J	AA	47 kohms,1/8W
RK09	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
RK10	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK11,12	VRD-ST2CD153J	J	AA	15 kohms,1/6W
RK13,14	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK15	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK17,18	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK19,20	VRD-ST2CD560J	J	AA	56 ohms,1/6W
RK21,22	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RK23,24	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RK25,26	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RK27,28	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
RK29,30	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK31,32	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RK33	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RK34	VRD-MN2BD683J	J	AA	68 kohms,1/8W
RK35,36	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RK37,38	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RK39,40	VRD-MN2BD561J	J	AA	560 ohms,1/8W
RK41,42	VRD-MN2BD820J	J	AA	82 ohms,1/8W
RK43	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK45~50	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK52	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RK53	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK54	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK55,56	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RK57	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK58	VRD-RT2HD151J	J	AA	150 ohms,1/2W
RK60,61	VRD-ST2EE271J	J	AA	270 ohms,1/4W
RK62	VRD-MN2BD473J	J	AA	47 kohms,1/8W
RK63	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK64	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK65	VRD-MN2BD103J	J	AA	10 kohm,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RK66	VRD-MN2BD273J	J	AA	27 kohms,1/8W
RK67	VRD-MN2BD473J	J	AA	47 kohms,1/8W
RK68	VRD-MN2BD4R7J	J	AA	4.7 ohms,1/8W
RK69	VRD-ST2EE221J	J	AA	220 ohms,1/4W
RK72,73	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RK74,75	VRD-MN2BD683J	J	AA	68 kohms,1/8W
RK81	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RK89	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK90	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RL11	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RL12	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RL13	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RL14	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RL15	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RL16	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RL17	VRD-RT2HD100J	J	AA	10 ohm,1/2W
RL18	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RL19	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RL20	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RL24	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RM1	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
RP11,12	VRD-MN2BD101J	J	AA	100 ohm,1/8W
RP15,16	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RP17,18	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
RP19,20	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RP21,22	VRD-MN2BD101J	J	AA	100 ohm,1/8W
RP25,26	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RP27,28	VRD-MN2BD473J	J	AA	47 kohms,1/8W
RP29,30	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RP31,32	VRD-ST2EE221J	J	AA	220 ohms,1/4W
RP33,34	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RP35,36	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RP47,48	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RP51,52	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RP53,54	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RP62	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RP70	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RP73	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RP91	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RQ01~08	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RQ09	VRD-ST2EE331J	J	AA	330 ohms,1/4W
RQ10	VRD-ST2EE221J	J	AA	220 ohms,1/4W
RQ11,12	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RQ13~15	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RQ16~20	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RQ21	VRD-ST2CD334J	J	AA	330 kohms,1/6W
RR01	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RR11,12	VRD-MN2BD273J	J	AA	27 kohms,1/8W
RR13,14	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
RR15,16	VRD-MN2BD273J	J	AA	27 kohms,1/8W
RR17,18	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
RR19~21	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RT01	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RT02	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RT03	VRD-ST2CD220J	J	AA	22 ohms,1/6W
RT04	VRD-MN2BD470J	J	AA	47 ohms,1/8W
RT05	VRD-MN2BD473J	J	AA	47 kohms,1/8W
RT06	VRD-MN2BD100J	J	AA	10 ohm,1/8W
RT07	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RT08	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RT09	VRD-ST2EE821J	J	AA	820 ohms,1/4W
RT10	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
RV13,14	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RV17,18	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RV19,20	VRD-ST2CD391J	J	AA	390 ohms,1/6W
RV21,22	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RV23,24	VRD-ST2CD102J	J	AA	1 kohm,1/6W
⚠ RV25,26	VRG-ST2HC101J	J	AB	100 ohm,1/2W,Fusible
RV27,28	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RV29,30	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RV31,32	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RV33	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RV34	VRD-RT2HD153J	J		15 kohms,1/2W
RV35	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RV36	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RV37	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RV38	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RV40~42	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RV43,44	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
RV51,52	VRD-RT2HD331J	J	AA	330 ohms,1/2W
RV53,54	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RV55	VRD-ST2EE470J	J	AA	47 ohms,1/4W
RV56	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RV57	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
RV58	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RV59	VRD-ST2CD104J	J	AA	100 kohm,1/6W
RV60	VRD-ST2CD273J	J	AA	27 kohms,1/6W
RV61	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RV62	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RV63	VRD-ST2CD124J	J	AA	120 kohms,1/6W
RV69,70	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RV71	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RV72	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RV91,92	VRD-ST2EE221J	J	AA	220 ohms,1/4W
RX13,14	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RX15,16	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RX19,20	VRD-ST2CD391J	J	AA	390 ohms,1/6W
RX21,22	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RX23,24	VRD-ST2CD102J	J	AA	1 kohm,1/6W
⚠ RX25,26	VRG-ST2HC101J	J	AB	100 ohm,1/2W,Fusible
RX27,28	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RX29,30	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RX31,32	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RX33	VRD-ST2CD124J	J	AA	120 kohms,1/6W
RX34	VRD-RT2HD153J	J		15 kohms,1/2W
RX35	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RX36	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RX37	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RX38	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RX40~42	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RX43,44	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
RX50	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RX51	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RX52	VRD-ST2CD273J	J	AA	27 kohms,1/6W
RX53,54	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RX55	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RX69,70	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RX71	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RY11	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RY12,13	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RY14	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RY15	VRD-ST2CD391J	J	AA	390 ohms,1/6W
RY16	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RY17	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RY18	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RY19	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RY20	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
RY21	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RY22	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RY23	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RY26	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RY51	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RY52,53	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RY54	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RY55	VRD-ST2CD391J	J	AA	390 ohms,1/6W
RY56	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RY57	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RY58	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RY59	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RY60	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
RY61	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RY62	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RY63	VRD-ST2CD473J	J	AA	47 kohms,1/6W
RY66	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
RZ01,02	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RZ03,04	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RZ05,06	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
RZ07,08	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RZ09,10	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RZ11~14	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
RZ15,16	VRD-MN2BD124J	J	AA	120 kohms,1/8W
RZ17,18	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RZ19,20	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
RZ21,22	VRD-MN2BD124J	J	AA	120 kohms,1/8W
RZ23,24	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RZ25,26	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
RZ27,28	VRD-MN2BD274J	J	AA	270 kohms,1/8W
RZ29,30	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RZ31,32	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
RZ33,34	VRD-MN2BD334J	J	AA	330 kohms,1/8W
RZ35,36	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RZ37,38	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
RZ39,40	VRD-MN2BD334J	J	AA	330 kohms,1/8W
RZ41,42	VRD-MN2BD681J	J	AA	680 ohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RZ43~46	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RZ47	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RZ48,49	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RZ50	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RZ51	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RZ52~54	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RZ55,56	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RZ57,58	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RZ59,60	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RZ61,62	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RZ63,64	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RZ65~68	VRD-ST2EE101J	J	AA	100 ohm,1/4W
RZ69~74	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RZ75	VRD-ST2CD100J	J	AA	10 ohm,1/6W
RZ76~78	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RZ79~84	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RZ85,86	VRD-ST2EE102J	J	AA	1 kohm,1/4W
RZ87~89	VRD-MN2BD474J	J	AA	470 kohms,1/8W
RZ90,91	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RZ93,94	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RZ95	VRD-ST2CD221J	J	AA	220 ohms,1/6W

OTHER CIRCUITRY PARTS

BI99/CNS99	QCNWN1238AWZZ	J	AH	Connector Ass'y,3/3Pin
BI601/CNSU02	QCNWN1270AWZZ	J	AH	Connector Ass'y,9/9Pin
BI901/CNS901	QCNWN1225AWZZ	J	AL	Connector Ass'y,11/11Pin
BI902/CNS902	QCNWN1226AWZZ	J	AF	Connector Ass'y,4/4Pin
BI903/CNS903	QCNWN1227AWZZ	J	AK	Connector Ass'y,7/7Pin
BI904/CNS904	QCNWN1229AWZZ	J	AK	Connector Ass'y,7/7Pin
BIA11/CNSA11	QCNWN1237AWZZ	J	AG	Connector Ass'y,2/2Pin
BIF11/CNSF11	QCNWN1233AWZZ	J	AF	Connector Ass'y,3/3Pin
BIF12/CNSF12	QCNWN1234AWZZ	J	AL	Connector Ass'y,14/14Pin
BIF13/CNSF13	QCNWN1239AWZZ	J	AH	Connector Ass'y,11/11Pin
BIM5/CNS10/CNS5	QCNWN1184AWZZ	J	AL	Connector Ass'y,6/10/2Pin
CFWA01	QCNCWZG10AWZZ	J	AC	Socket,10Pin
CFWA02	QCNCWZG20AWZZ	J	AC	Socket,20Pin
CFWP01	QCNCWZG16AWZZ	J	AD	Socket,16Pin
CFWP02	QCNCWZG13AWZZ	J	AD	Socket,13Pin
CFWU01	QCNCWZG10AWZZ	J	AC	Socket,10Pin
CFWU02	QCNCWZG20AWZZ	J	AC	Socket,20Pin
CFWV11	QCNCWZG16AWZZ	J	AD	Socket,16Pin
CFWX11	QCNCWZG13AWZZ	J	AD	Socket,13Pin
CNP1	92LCONE5P53253	J	AB	Plug,5Pin
CNP2	QCNCM705HAFZZ	J	AB	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP10	QCNCM705KAFZZ	J	AC	Plug,11Pin
CNP11	QCNCM704CAFZZ	J	AB	Plug,3Pin
CNP12	QCNCM704PAFZZ	J	AC	Plug,14Pin
CNP303	QCNCM705LAFZZ	J	AC	Plug,11Pin
CNPF01	QCNCWZS10AWZZ	J	AK	Socket,10Pin
CNPK01	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNPK02	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNPP01	QCNCM698LAFZZ	J	AB	Plug,11Pin
CNPP02	QCNCM705DAFZZ	J	AB	Plug,4Pin
CNPR11	QCNCM704CAFZZ	J	AB	Plug,3Pin
CNPR12	QCNCM704BAFZZ	J	AA	Plug,2Pin
CNPU02	QCNCM698JAFZZ	J	AC	Plug,9Pin
CNPV11	92LCONPB2BPHK	J	AB	Plug,2Pin
CNPV12	QCNCM698GAFZZ	J	AB	Plug,7Pin
CNPX12	QCNCM698GAFZZ	J	AB	Plug,7Pin
CNS1A/B	QCNWN1181AWZZ	J	AK	Connector Ass'y,5/5Pin
CNS2A/B	QCNWN1182AWZZ	J	AH	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1183AWZZ	J	AG	Connector Ass'y,6/6Pin
CNSD01	QCNCMZS10AWZZ	J	AK	Plug,10Pin
CNSK1	QCNWN1231AWZZ	J	AG	Connector Ass'y,3Pin
CNSK2	QCNWN1232AWZZ	J	AN	Connector Ass'y,7Pin
CNSV11	QCNWN1228AWZZ	J	AD	Connector Ass'y,2Pin
⚠ F990	92LFUSE-T502-E	J	AD	Fuse,T5.0A L 250V
⚠ F991	92LFUSE-T252-E	J	AD	Fuse,T2.5A L 250V
⚠ F992	92LFUSE-T252-E	J	AD	Fuse,T2.5A L 250V
⚠ F995,996	92LFUSET802E	J	AD	Fuse,T8A L 250V
⚠ F997	92LFUSE-T252-E	J	AD	Fuse,T2.5A L 250V
⚠ F998	92LFUSE-T162-E	J	AD	Fuse,T1.6A L 250V
⚠ F999	92LFUSE-T501-E	J	AD	Fuse,T500mA L 250V
FE301	RTUNS0007AWZZ	J	AT	FM Front End
FLD1	VVKBJ613GK/-1	J	BD	FL Display
FW901	QCNWN1301AWZZ	J	AC	Plug,3Pin
FWA01	QCNWN1222AWZZ	J	AE	Flat Cable,10Pin
FWA02	QCNWN1223AWZZ	J	AF	Flat Cable,20Pin
FWD01	QCNWN0711AWZZ	J	AG	Flat Wire,6Pin
FWD02	QCNWN1282AWZZ	J	AF	Flat Wire,3Pin
FWM1	QCNWN1230AWZZ	J	AF	Flat Wire,13Pin
FWM2	QCNWN0942AWZZ	J	AC	Flat Wire,4Pin
FWP01	QCNWN1218AWZZ	J	AF	Flat Cable,16Pin
FWP02	QCNWN1220AWZZ	J	AF	Flat Cable,13Pin
FWV91	QCNWN1281AWZZ	J	AG	Flat Wire,5Pin
ICA14	VHPGP1F38R/-1	J	AM	Terminal,Digital Input,GP1F38R
ICR11	VHPGP1F38T/-1	J	AL	Terminal Digital Output/LED, GP1F38T
J601,602	92LJACK-1249A	J	AE	Jack,Mic1/2
JA11	QJAKZ0011AWZZ	J	AE	Jack,Digital 2 Coaxial
JH51	QSOCJ0302AWZZ	J	AE	Jack,Video In/Out
JR11,12	QSOCJ0205AWZZ	J	AG	Jack,VIDEO/AUX 1/2
JV91	92LJACKH1759A	J	AF	Jack,Headphones
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	RMOTV0373AFZZ	J	AL	Motor with Worm Pulley [T/T Up/Down Loading]
M901	92LMTR1810A	J	AK	Motor,Air Cooling Fan
MM1(250-1)	92LMTR2512AASY	J	AT	Motor with Pulley [Tape]
RLYV11	RRLYD0008AWZZ	J	AN	Relay
RLYX11	RRLYD0008AWZZ	J	AN	Relay
RLYY11	RRLYD0008AWZZ	J	AN	Relay
RLYY51	RRLYD0008AWZZ	J	AN	Relay
RXD01	VHLN64H380A-1	J	AK	Remote Sensor,N64H380A
SO301	QTANC0301AWZZ	J	AH	Terminal,Antenna
SOLM1	92LM-SOL1676A	J	AK	Solenoid
SOLM2	————		—	Solenoid Ass'y
SW1	QSW-P0004AWZZ	J	AE	Switch,Push Type [Open/Close]
SW2	QSW-F0001AWZZ	J	AD	Switch,Leaf/Skeleton Type [Mecha Up]
SW3	QSW-P0005AWZZ	J	AD	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
⚠ SW991	QSOCE0008AWZZ	J	AH	Switch,Slide Type [Voltage Selector]
SWD01	QSW-Z0003AWZZ	J	AH	Switch,Rotary Type [Volume Jog]
SWD02	QSW-Z0003AWZZ	J	AH	Switch,Rotary Type [Jog]
SWD03	92LSWICHT1663T	J	AC	Switch,Key Type [X-BASS]
SWD04	92LSWICHT1663T	J	AC	Switch,Key Type [PRE EQ.]
SWD05	92LSWICHT1663T	J	AC	Switch,Key Type [MENU]
SWD06	92LSWICHT1663T	J	AC	Switch,Key Type [ITEM]
SWD12	92LSWICHT1663T	J	AC	Switch,Key Type [TUNING UP/CUE]
SWD13	92LSWICHT1663T	J	AC	Switch,Key Type [STOP]
SWD14	92LSWICHT1663T	J	AC	Switch,Key Type [NORMAL EDIT]
SWD15	92LSWICHT1663T	J	AC	Switch,Key Type [HIGH EDIT]
SWD16	92LSWICHT1663T	J	AC	Switch,Key Type [REC/PAUSE]
SWD17	92LSWICHT1663T	J	AC	Switch,Key Type [F-PLAY]
SWD23	92LSWICHT1663T	J	AC	Switch,Key Type [QSOUND]
SWD26	92LSWICHT1663T	J	AC	Switch,Key Type [VIRTUAL]
SWD27	92LSWICHT1663T	J	AC	Switch,Key Type [PHANTOM]
SWD28	92LSWICHT1663T	J	AC	Switch,Key Type [NORMAL]
SWD29	92LSWICHT1663T	J	AC	Switch,Key Type [BYPASS]
SWD30	92LSWICHT1663T	J	AC	Switch,Key Type [TUNING DOWN/REWIND]
SWD31	92LSWICHT1663T	J	AC	Switch,Key Type [CD PAUSE]
SWD32	92LSWICHT1663T	J	AC	Switch,Key Type [REVERSE MODE]
SWD33	92LSWICHT1663T	J	AC	Switch,Key Type [R-PLAY]
SWD34	92LSWICHT1663T	J	AC	Switch,Key Type [CLOCK]
SWD35	92LSWICHT1663T	J	AC	Switch,Key Type [MEMORY]
SWD36	92LSWICHT1663T	J	AC	Switch,Key Type [TIMER]
SWD37	92LSWICHT1663T	J	AC	Switch,Key Type [SLEEP]
SWD38	92LSWICHT1663T	J	AC	Switch,Key Type [CLEAR]
SWD39	92LSWICHT1663T	J	AC	Switch,Key Type [DVD/VIDEO 1]
SWD40	92LSWICHT1663T	J	AC	Switch,Key Type [DVD/VIDEO 2]
SWD41	92LSWICHT1663T	J	AC	Switch,Key Type [TAPE 1/2]
SWD42	92LSWICHT1663T	J	AC	Switch,Key Type [TUNER/BAND]
SWD43	92LSWICHT1663T	J	AC	Switch,Key Type [CD]
SWD48	92LSWICHT1663T	J	AC	Switch,Key Type [POWER/STAND-BY]
SWD49	92LSWICHT1663T	J	AC	Switch,Key Type [KARAOKE]
SWD50	92LSWICHT1663T	J	AC	Switch,Key Type [DISC 1]
SWD51	92LSWICHT1663T	J	AC	Switch,Key Type [DISC 2]
SWD52	92LSWICHT1663T	J	AC	Switch,Key Type [DISC 3]
SWD53	92LSWICHT1663T	J	AC	Switch,Key Type [DISC SKIP]
SWD54	92LSWICHT1663T	J	AC	Switch,Key Type [OPEN/CLOSE]
SWF02	QSW-S0024AWZZ	J	AE	Switch,Slide Type [Span Selector]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SWM3(250-9)	92LM-SW1676A	J	AC	Switch,Leaf Type [REC FWD]
SWM4(250-10)	92LM-SW1676A	J	AC	Switch,Leaf Type [REC RVS]
SWM5(250-11)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S]
SWM6(250-12)	92LM-SW1676B	J	AD	Switch,Leaf Type [CAM]
TMV01	QTANA0601AWZZ	J	AH	Speaker Terminal,Front/Center
TMX11	QTANA0601AWZZ	J	AH	Speaker Terminal,Surround/Sud Woofer
WHD01	QCNCW015FAWZZ	J	AB	Socket,6Pin
WTL11	QCNCW012NAWZZ	J	AE	Plug,13Pin
WTP01,02	QCNCW623CAFZZ	J	AB	Plug,3Pin
WTV11	92LCONE5P52287	J	AC	Socket,5Pin

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0010AWZZ	J	AC	Rail,Guide
304	NSFTM0002AWFW	J	AE	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠306	92LHPC1MASY	J	BG	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	GCAB-1044AWSA	J	AM	CD Player Base
202	GCAB-1050AWSB	J	AS	Top Cabinet
203	GCOVA1186AWSB	J	AF	Tray Cover Panel,Left
204	GCOVA1187AWSB	J	AF	Tray Cover Panel,Right
205	GCOVA1202AWSA	J	AG	CD Tray Cover
206	GDORF0058AWSB	J	AM	Cassette Holder,Tape 1
207	GDORF0059AWSB	J	AM	Cassette Holder,Tape 2
208	HDECQ0346AWSA	J	AH	Panel,Cassette,Tape 1
209	HDECQ0347AWSA	J	AH	Panel,Cassette,Tape 2
210	HDECQ0312AWSA	J	AK	Panel,Surround
211	HDECQ0394AWSA	J		Panel,FL
212	HDECQ0314AWSB	J	AF	Panel,Operation (A)
213	HDECQ0315AWSB	J	AE	Panel,Operation (B)
214	HDECQ0299AWSA	J	AG	CD Top Panel
215	JKNBZ0492AWSB	J	AE	Button,Timer/Clock/Sleep/ Memory/Clear
216	JKNBZ0493AWSB	J	AE	Button,Edit/Set Up
217	JKNBZ0494AWSA	J	AH	Button,Surround
218	JKNBZ0538AWSA	J	AE	Button,Power/Stand-by
219	JKNBZ0496AWSA	J	AK	Button,Function
220	JKNBZ0472AWSB	J	AG	Button,Disc No.
221	JKNBZ0473AWSA	J	AD	Button,Open/Close
222	JKNBZ0523AWSA	J	AH	Button,X-BASS/Demo
223	92LKNOB2921AS1	J	AG	Operation Knob Ass'y (A)
223- 1	————		—	Knob,Operation (A) (Not Replacement Item)
223- 2	HDECQ0337AWSA	J	AC	Indicator (A)
223- 3	PFLT-0040AWZZ	J	AB	Felt (A)
224	92LKNOB2921BS1	J	AH	Operation Knob Ass'y (B)
224- 1	————		—	Knob,Operation (B) (Not Replacement Item)
224- 2	HDECQ0338AWSA	J	AC	Indicator (B)
224- 3	PFLT-0040AWZZ	J	AB	Felt (B)
225A	JKNBZ0499AWSB	J	AH	Knob,Operation (C)
225B	HDECQ0339AWSA	J	AC	Indicator (C)
225C	HDECQ0340AWSA	J	AC	Indicator (D)
225D	HDECQ0341AWSA	J	AC	Indicator (E)
225E	HDECQ0342AWSA	J	AC	Indicator (F)
226	MLIFP0003AWZZ	J	AE	Damper
227	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
228	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
229	HBDGB1008AWSB	J		Badge,SHARP
230	JKNBK0058AWSA	J	AM	Knob,Volume
231	KNOB2921AASY1	J	AK	Jog Knob Ass'y
231- 1	————		—	Knob,JOG (Not Replacement Item)
231- 2	HDECQ0336AWSB	J	AG	Panel,JOG
232	92LCSPR1431C	J	AA	Ring Spring,Volume
233	LANGK0132AWFW	J	AE	Bracket,PWB/Knob
234	LCHSM0071AWFW	J	AW	Main Chassis
235	GITAR0400AWSA	J		Rear Panel
236	LANGK0125AWFW	J	AK	Bracket,PWB (A)
237	LANGK0126AWFW	J	AF	Bracket,Shield Support
238	LANGK0130AWFW	J	AF	Bracket,AC Power Supply Cord
239	PCUSG0022AWZZ	J	AB	Cushion,Leg
240	PSLDM3044AWFW	J	AM	Shield (Dolby) [A]
241	PCUSG0022AWZZ	J	AB	Cushion,Leg
⚠242	QACCA0001AW00	J	AM	AC Power Supply Cord [For Saudi Arabia Only]
⚠242	QACCB0006AW00	J	AU	AC Power Supply Cord[For Hong Kong Only]
⚠242	QACCE0008AW00	J	AG	AC Power Supply Cord [Except for Saudi Arabia/Hong Kong/Australia/New Zealand]
⚠242	QACCJ0003AW00	J	AK	AC Power Supply Cord [For Taiwan Only]
⚠242	QACCL0005AW00	J	AN	AC Power Supply Cord [For Australia/New Zealand Only]
243	LANGT0042AWFW	J	AC	Bracket,PWB Support
244	HPNLC1197AWSA	J		Front Panel
245	92LN-BAND1318A	J	AA	Nylon Band,80mm
246	LANGK0129AWFW	J	AF	Bracket,Fan Support
247	NFANP0001AWZZ	J	AD	Rotary Fan
248	92LCSPR1431C	J	AA	Ring Spring,Fan
249	PRDAR0110AWFW	J	AY	Heat Sink,Main
250	92LMECHA2921A	J	BK	Tape Mechanism Ass'y
250- 1(MM1)	92LMTR2512AASY	J	AT	Motor with Pulley [Tape]
250- 2	NBLTH0003AWZZ	J	AC	Belt,Main,Tape 1
250- 3	NBLTH0004AWZZ	J	AC	Belt,Main,Tape 2
250- 4	NBLTK0021AWZZ	J	AB	Belt,Sub
250- 5	NROLY0003AWM1	J	AF	Pinch Roller Foward Ass'y
250- 6	NROLY0004AWM1	J	AF	Pinch Roller Reverse Ass'y
250- 7	92LMRPH1746A	J	AM	Head,Record/Playback
250- 8	RHEDK0002AWZZ	J	AV	Head,Erase [Tape 2]
250- 9(SWM3)	92LM-SW1676A	J	AC	Switch,Leaf Type [REC FWD]
250-10(SWM4)	92LM-SW1676A	J	AC	Switch,Leaf Type [REC RVS]
250-11(SWM5)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S]
250-12(SWM6)	92LM-SW1676B	J	AD	Switch,Leaf Type [CAM]
251	LANGK0127AWFW	J	AG	Bracket,Heat Sink (A)
252	LANGK0128AWFW	J	AG	Bracket,Heat Sink (B)
253	PRDAR0111AWFW	J	AR	Sub Heat Sink
254	GITAS0048AWSA	J	AQ	Side Panel,Left
255	GITAS0049AWSA	J	AQ	Side Panel,Right
257	LANGF0032AWZZ	J	AC	Support,T/T Lock Lever
258	LCHSZ0010AWZZ	J	AM	Chassis,Loading
259	LCHSZ0011AWZZ	J	AG	Chassis,CD Mechanism
260	92LHOLD2037AS1	J	AK	Stabilizer Ass'y
260- 1	————		—	Stabilizer (Not Replacement Item)
260- 2	PMAGF0001AWZZ	J	AF	Magnet
260- 3	92LSUPT1749D	J	AA	Support,Magnet
261	LHLDZ1139AWSA	J	AD	Support,Stabilizer
262	LHLDZ1140AWZZ	J	AB	Guide
263	LHLDZ1141AWZZ	J	AB	Support,Pitch
264	LHLDZ1189AWZZ	J	AG	Holder,FL
265	LHLDZ1188AWZZ	J	AC	Holder,LED
266	MLEVP0066AWZZ	J	AE	Lever,Shift
267	MLEVP0067AWZZ	J	AC	Lever,Lock
268	MLEVP0068AWZZ	J	AB	Lever,Change
269	MLEVP0070AWZZ	J	AB	Lever,T/T Lock
270	MSPRC0020AWFJ	J	AB	Spring,T/T Lock Lever
271	MSPRC0024AWFW	J	AB	Spring,Solenoid
272	MSPRD0044AWFJ	J	AB	Spring,Lock Lever
273	NBLTK0029AWZZ	J	AB	Belt,Drive
274	NGERH0064AWZZ	J	AD	Gear,Cam
275	NGERH0065AWZZ	J	AB	Gear,Turntable
276	NGERK0003AWZZ	J	AC	Gear,Drive
277	NGERK0004AWZZ	J	AB	Gear,Bevel
278	NGERK0005AWZZ	J	AB	Gear,Loading
279	NGERW0006AWZZ	J	AC	Gear,Worm Wheel
280	NPLYD0001AWZZ	J	AB	Pulley
281	NROLP0009AWZZ	J	AB	Roller
282	NTNT-0018AWSA	J	AK	Turntable
283	PCUSG0022AWZZ	J	AB	Cushion
284	QFSHD0001AWZZ	J	AB	Holder,Fuse
285	92LLUG1746A	J	AA	Lug Terminal
286	PFLT-0038AWZZ	J	AC	Felt
⚠288	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
289	JKNBK0012AWSE	J	AE	Knob,Mic Volume

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
290	JKNBZ0537AWSA	J	AC	Button,Karaoke Marker
291	TSPC-0532AWZZ	J		Label,Specification [For Taiwan]
291	TSPC-0533AWZZ	J		Label,Specification [For Thailand]
601	XBBSD20P04000	J	AA	Screw,ø2×4mm
602	XBPSD26P05JSO	J	AB	Screw,ø2.6×5mm
603	XEBSD26P12000	J	AA	Screw,ø2.6×12mm
604	XEBSD30P10000	J	AA	Screw,ø3×10mm
605	XESSD30P10000	J	AA	Screw,ø3×10mm
606	XJBSD30P10000	J	AA	Screw,ø3×10mm
607	XJBSD30P14000	J	AA	Screw,ø3×14mm
608	XJBSF30P08000	J	AA	Screw,ø3×8mm
609	XJBSF30P12000	J	AA	Screw,ø3×12mm
610	XJSSD30P10000	J	AA	Screw,ø3×10mm
611	XHBSD30P06000	J	AA	Screw,ø3×6mm
612	XJBSD30P08000	J	AA	Screw,ø3×8mm
613	LX-JZ0022AFFD	J	AA	Screw,ø3×8mm
614	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
615	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
616	XJSSF30P10000	J	AA	Screw,ø3×10mm
617	LX-TZ0019AFZZ	J	AB	Screw,Special
618	LX-EZ0005AWFD	J	AA	Screw,Special
619	LX-JZ0002AWFD	J	AA	Screw,ø3×10mm
620	XEBSD30P12000	J	AA	Screw,ø3×12mm
621	XJBSF30P10000	J	AA	Screw,ø3×10mm
622	LX-EZ0010AWFD	J	AA	Screw,Special

ACCESSORIES/PACKING PARTS

	QANTL0006AWZZ	J	AG	AM Loop Antenna
	SPAKA0191AWZZ	J	AQ	Packing Add., (Left/Right)
	SPAKC0702AWZZ	J		Packing Case [Except for Australia/New Zealand]
	SPAKC0703AWZZ	J		Packing Case [For Australia/New Zealand]
	SPAKP0032AWZZ	J	AF	Polyethylene Bag,Unit
	TCAUA0027AWZZ	J		Sheet,Caution [For Taiwan Only]
	TCAUS0040AWZZ	J	AB	Label,Safety Caution [For Taiwan Only]
	TGANE0009AW14	J		Warranty Card [For Philippines]
	TGANZ0022AW04	J		Warranty Card [For Taiwan]
	TINST0045AWZZ	J		Operation Manual [For Thailand Only]
	TINST0046AWZZ	J		Quick Guide [For Thailand Only]
	TINSZ0355AWZZ	J	AR	Operation Manual [Except for Thailand]
	TINSZ0356AWZZ	J	AC	Quick Guide [Except for Thailand]
	TLABB0001AWZZ	J	AB	Label,SHARP Corporation JAPAN [For Syria/Chile/Peru/Bolivia (SET)]
	TLABE0260AWZZ	J	AB	Bar Code Label
	TLABE0261AWZZ	J		Label,Bar Code [For Thailand/Australia/Taiwan/New Zealand]
	TLABJ0001AWZZ	J	AB	Label,SHARP Corporation JAPAN [For Syria/Chile/Peru/Bolivia (Packing Case)]
	TLABR0999AWZZ	J		Label,Bar Code [For Central•South America]
	TLABZ0484AWZZ	J		Label,Caution [For Taiwan Only]
	TLSTS0011AWZZ	J	AB	List,S/S [For Taiwan Only]
	92LBAG1460C1	J	AB	Polyethylene Bag,Operation Manual
	92LBAG1770A	J	AB	Polyethylene Bag,AC Power Supply Cord [For Hong Kong Only]
	92LBAG1770A	J	AB	Polyethylene Bag,AC Supply Cord [For Hong Kong Only]
	92LBAG760C	J	AA	Polyethylene Bag,AC Plug [For Saudi Arabia Only]
	92LFANT1746A	J	AD	FM Antenna
	92LGCARD1266E1	J	AC	Warranty Card [For Australia/New Zealand]
	92LLABL1204C	J	AA	Label,Made in Malaysia [For Australia/New Zealand/Central•Sou America]
	92LPANEL713A	J	AB	Panel,Made in Malaysia [For Kuwait/Jordan/Egypt/Saudi Arabia]
⚠	92LPLUG027	J	AD	Adaptor,AC Plug [For Saudi Arabia]
⚠	92LPLUG155A	J	AG	Adaptor,AC Plug [Except for Saudi Arabia]
	92L291-0068	J	AN	Speaker Cord,Rear Speaker
	92L3191PC49210	J	AN	Polyethylene Bag,Front Speaker
	92L3191PC49210	J	AN	Shield Pad,Front Speaker
	92L3191SW49210	J	AH	Polyethylene Bag,Sub Woofer
	92L3191SW49210	J	AH	Speaker Cord,Front Speaker, Center Speaker,Sub Woofer
	92L411-0072	J	AC	Polyethylene Bag,Center Speaker
	92L411-0107	J	AB	Polyethylene Bag,Rear Speaker
	92L412-0117	J	AR	Packing Add.,Top/Bottom,Rear/Center Speaker
	92L71025002100	J	AF	Sheet,Front Speaker
	92L71025002100	J	AF	Sheet,Sub Woofer
	92L720BPC49200	J	AK	Packing Add.,Bottom,Front Speaker
	92L720BSW49200	J	AK	Packing Add.,Bottom,Sub Woofer
	92L720TPC49200	J	AG	Packing Add.,Top,Front Speaker
	92L720TSW49200	J	AK	Packing Add.,Top,Sub Woofer
	RRMCG0165AWSA	J	AV	Remote Control
	92LLID1782A	J	AQ	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A	92LPWB2936MANS	J	—	Main
PWB-B	92LPWB2936CDUS	J	—	CD Servo
PWB-C1~4	92LPWB2936DPLS	J	—	Display/Switch/Headphones/Jog (Combined Ass'y)
PWB-D	92LPWB2936PWRS	J	—	Power
PWB-E	92LPWB2921TUNS	J	—	Tuner
PWB-F1,2	92LPWB2936AMPS	J	—	Speaker AMP.1/2 (Combined Ass'y)
PWB-G	92LPWB2937ACTS	J	—	Dolby
PWB-H	QPWBF0314AWZZ	J	AD	Tape Mechanism (PWB Only)
PWB-J	QPWBF0341AWZZ	J	AB	Sensor (PWB Only)
PWB-K	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-L	92LPWB2937KARS	J	—	Karaoke
PWB-M	QPWBF0313AWZZ	J	AB	Head PWB (PWB Only)

SPEAKER BOX PARTS FRONT SPEAKER (CP-K491)

900	92L10002C49210	J	BE	Cabinet Ass'y
901	92L200L0C49210	J	BE	Front Panel,Left
901	92L200R0C49210	J	BE	Front Panel,Right
903	92L201L0C49210	J	AY	Net Frame Ass'y,Left
903	92L201R0C49210	J	AY	Net Frame Ass'y,Right
905	92L23036099010	J	AC	Catching Holder
906	92L3141PC49210	J	AM	Speaker Cord Ass'y with Capacitors
908	92L411B840160P	J	AD	Screw,ø4×16mm
909	92L411B930100P	J	AC	Screw,ø3×10mm
910	92L44010213500	J	AH	Port Cushion
911	92L44210310100	J	AD	Cushion Wire
912	92L6000PK49100	J	AD	Label,Specifications
SP1,2	VSP0013WB228A	J	BE	Speaker,Woofer
SP3,4	VSP0050TBK28A	J	AT	Speaker,Tweeter
SP5,6	92L303R0300610	J	AQ	Super Tweeter Ass'y

SPEAKER BOX PARTS SUB WOOFER (CP-SW491)

900	92L10002W49210	J	BB	Cabinet Ass'y
901	92L20100C89010	J		Net Frame Ass'y
902	92L20300W49210	J	AS	Port Panel
903	92L3141SW49210	J	AL	Speaker Cord Ass'y
905	92L411S84016AB	J	AD	Screw,ø4×16mm
906	92L44010320200	J	AD	Port Cushion
907	92L6000SW49100	J		Label,Specifications
SP7	VSP0016WBE68A	J	BE	Speaker Woofer

SPEAKER BOX PARTS CENTER SPEAKER (GBOXS0010AWM3)

900	92L121-0155	J		Net Frame Ass'y
901	92L122-0035	J	AM	Wire Ass'y with Capacitor
902	92L128-0009	J	AT	Rear Cabinet Ass'y
904	92L303-0001	J	AT	Front Cabinet
906	92L296-0033	J	AG	Terminal Board

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
907	92L394-0041	J	AC	Leg Cushion
908	92L372-0094	J	AB	Screw,ø4×20mm
909	92L372-0101	J	AB	Screw,ø3×12mm
911	92L351-0156	J		Label,Specifications
SP8	VSP0012WBF08A	J	BB	Speaker,Woofer
SP9	VSP0050TBK48A	J	AT	Speaker,Tweeter

SPEAKER BOX PARTS SURROUND SPEAKER (GBOXS0011AWM3)

900	92L121-0156	J		Net Frame Ass'y
901	92L129-0001	J	AW	Rear Cabinet Ass'y with Capacitor
902	92L122-0036	J	AM	Wire Ass'y with Capacitor
903	92L128-0010	J	AW	Bottom Cab Ass'y
908	92L370-0001	J	AD	Bracket,Tweeter
909	92L372-0100	J	AC	Screw,ø4×16mm
910	92L372-0101	J	AB	Screw,ø3×12mm
911	92L372-0102	J	AC	Screw,ø4×10mm
913	92L394-0041	J	AC	Leg Cushion
914	92L351-0157	J		Label,Specifications
SP10,11	VSP0010WBV18A	J	BA	Woofer
SP12,13	VSP0050TBK38A	J	AS	Speaker Tweeter

CD-K491W

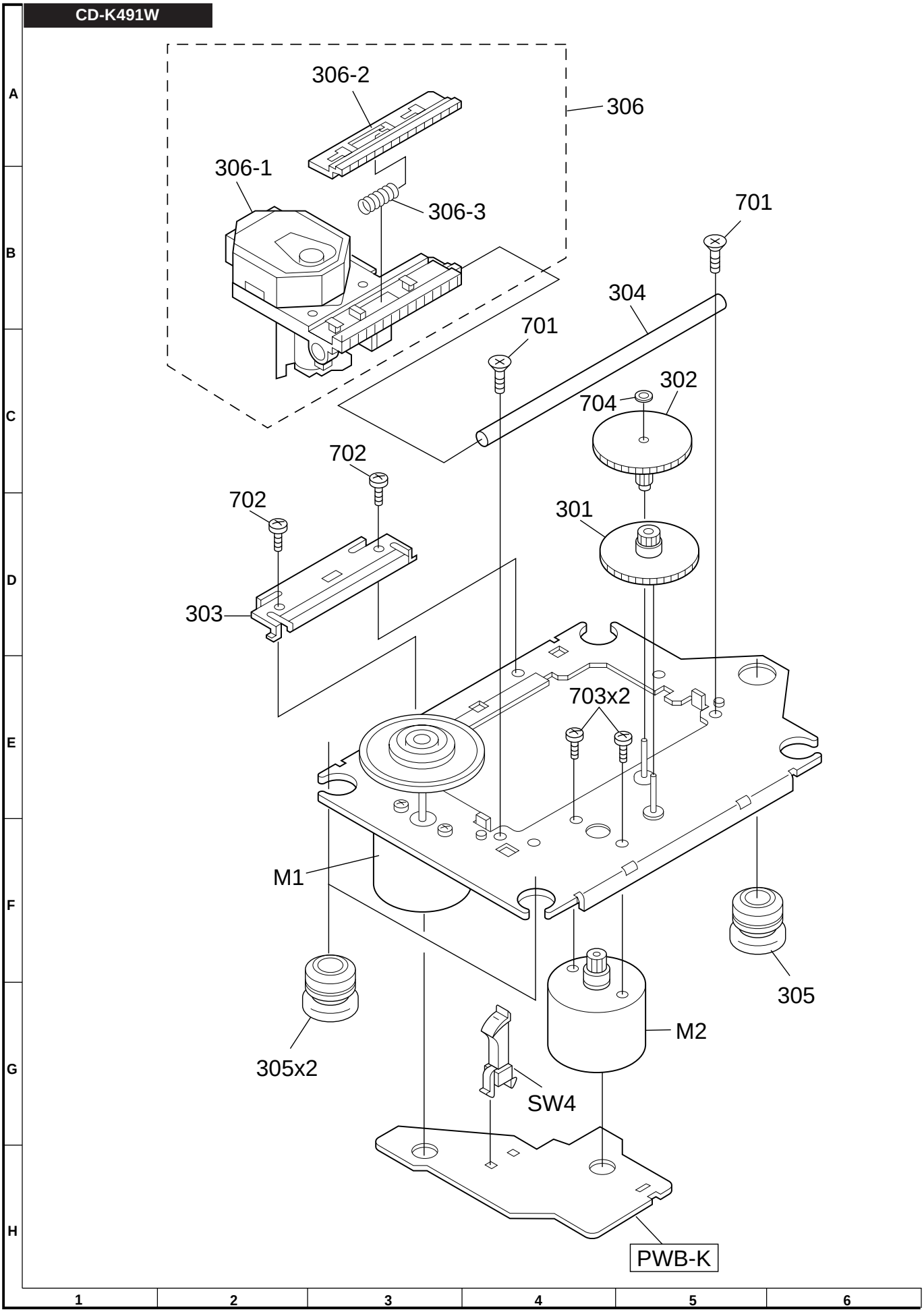

Figure 13 CD MECHANISM EXPLODED VIEW

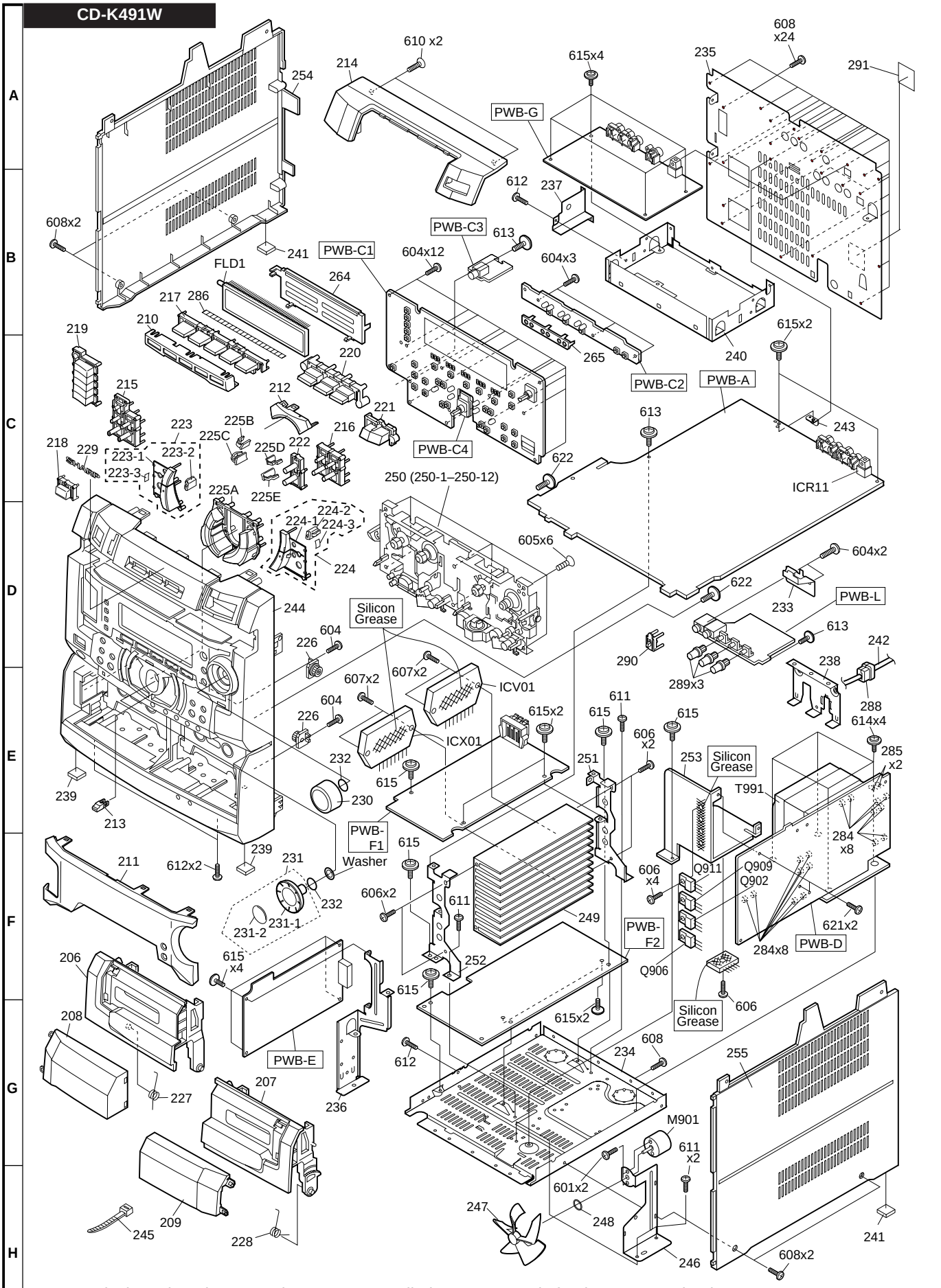

Figure 14 CABINET EXPLODED VIEW (1/2)

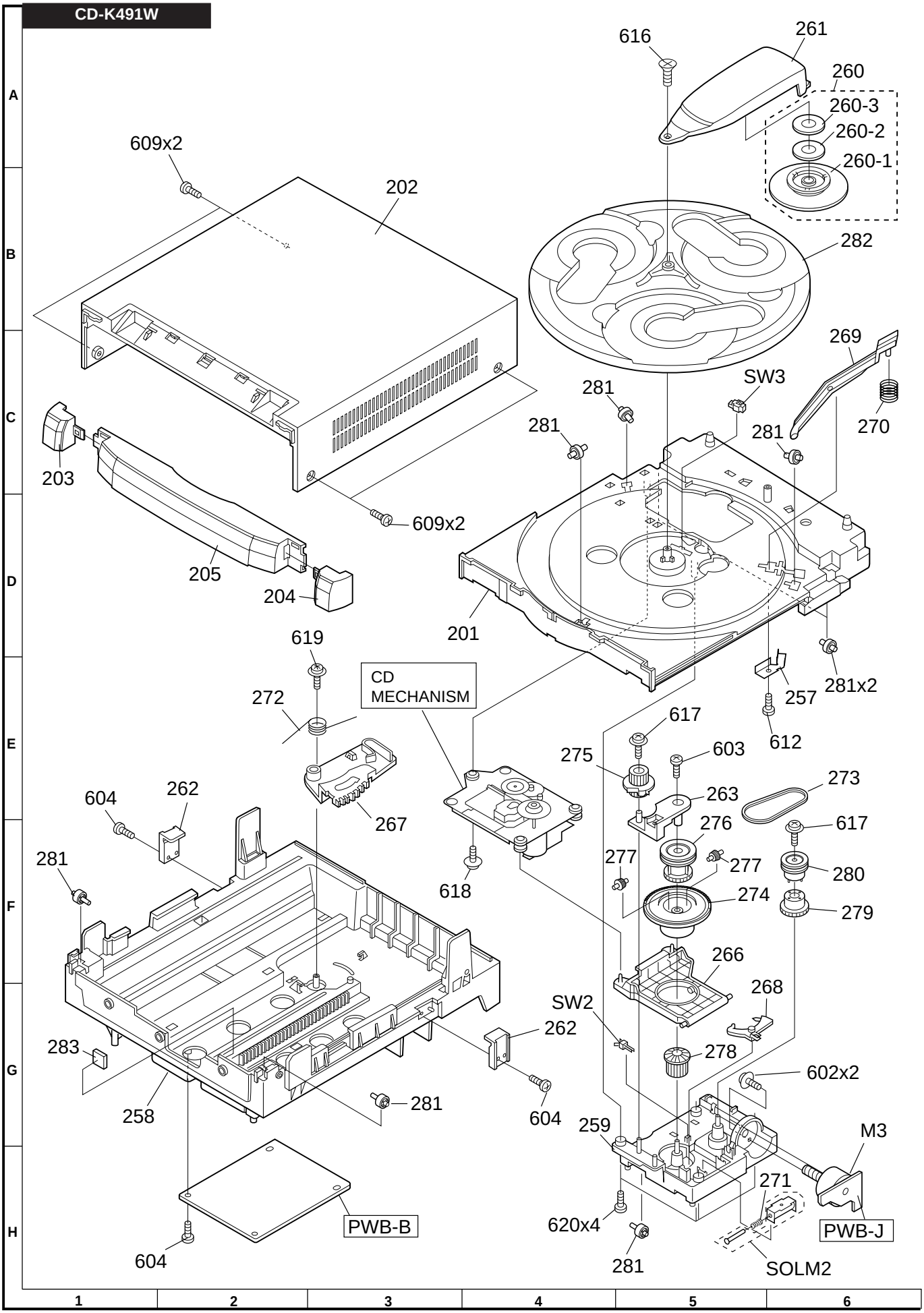

Figure 15 CABINET EXPLODED VIEW (2/2)

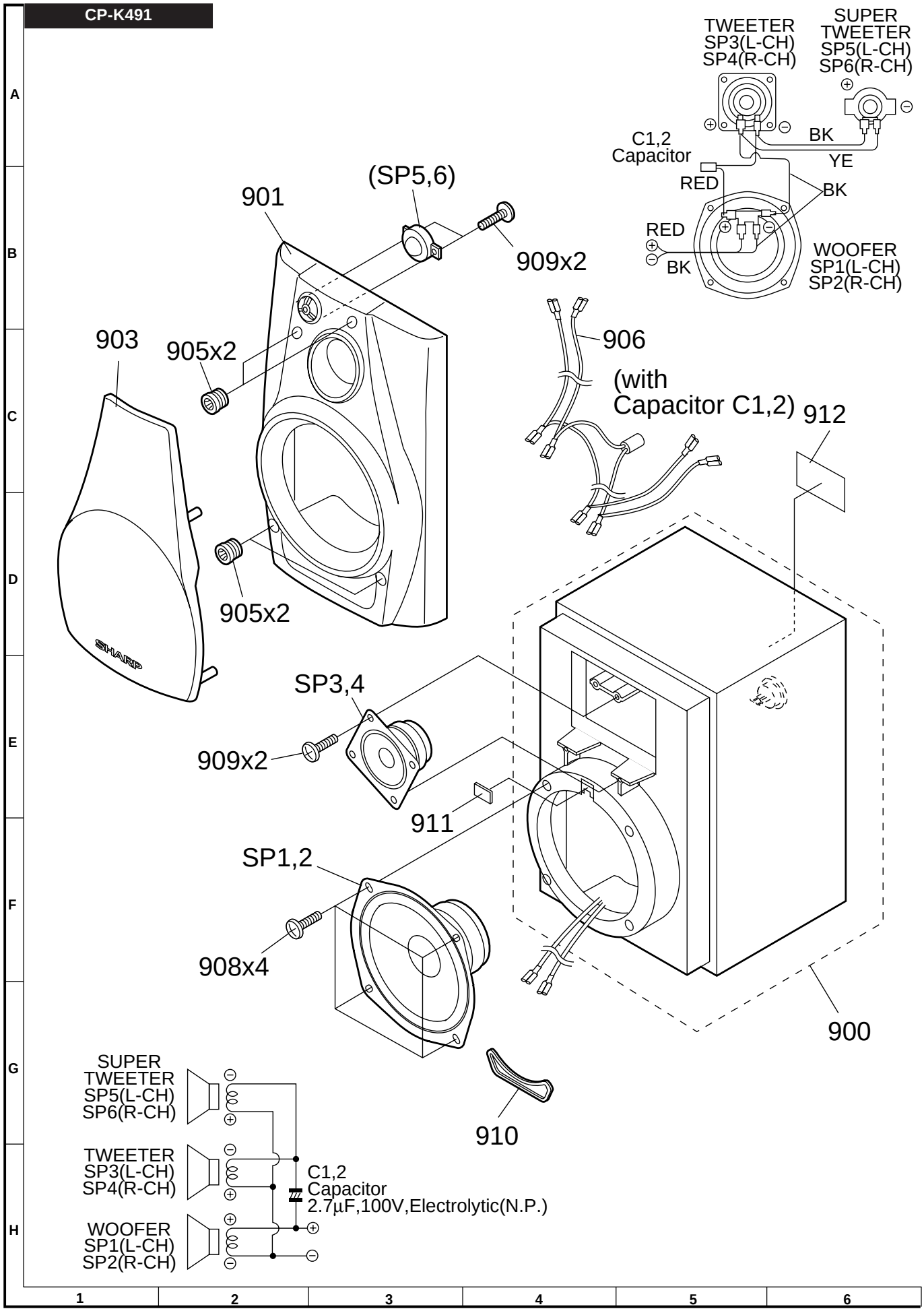

Figure 16 SPEAKER EXPLODED VIEW (1/3)

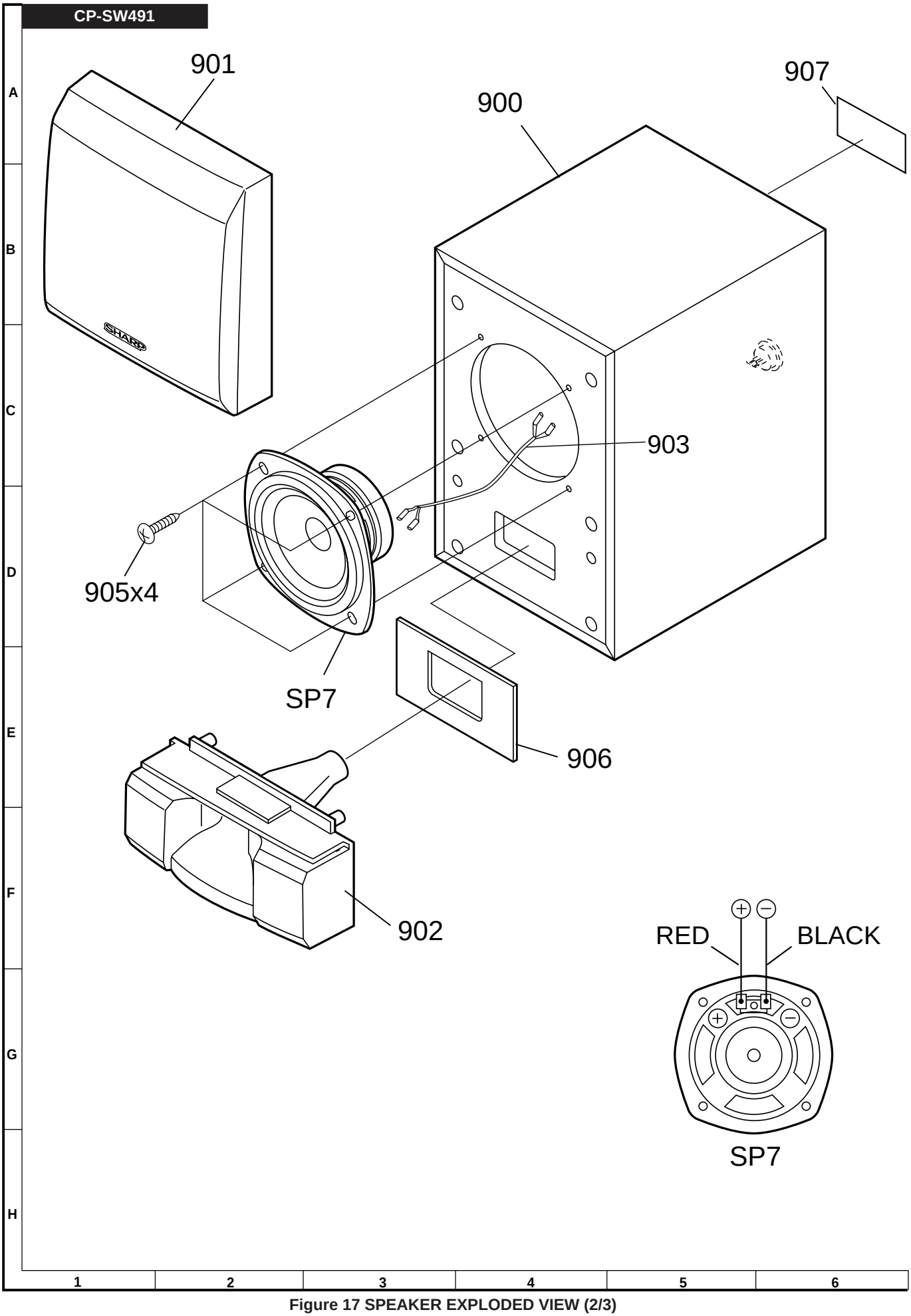

Figure 17 SPEAKER EXPLODED VIEW (2/3)

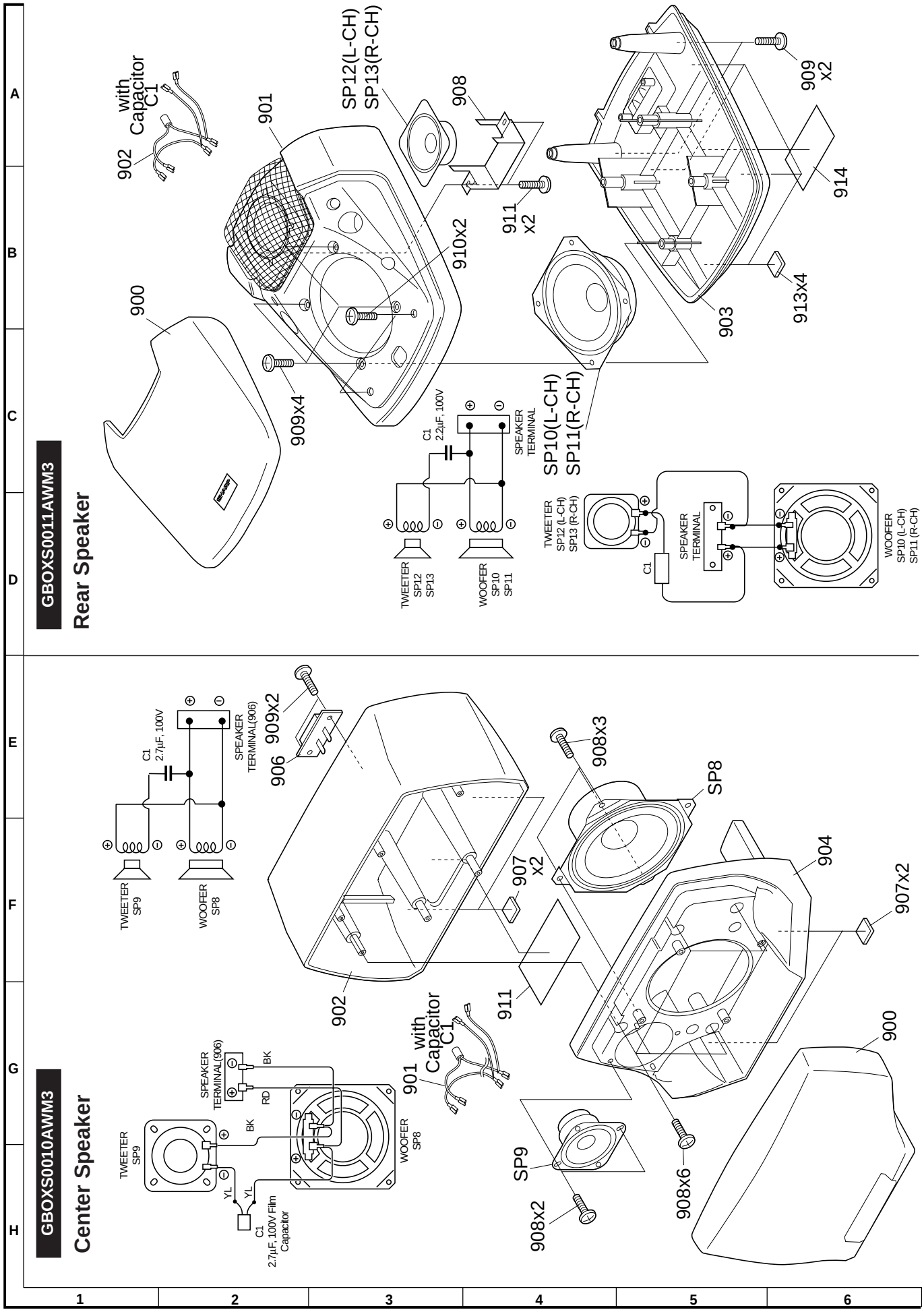

Figure 18 SPEAKER EXPLODED VIEW (3/3)